

# AB-PN755

## HRAS-pY157 Antibody

Phosphosite-specific rabbit polyclonal antibody for HRAS (H-Ras)



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### Target Protein

|                                |                                                                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Name Long:</b>      | GTPase Harvey Sarcoma Protein Ras                                                                                                                                                |
| <b>Protein Alias:</b>          | C-H-ras; HRAS1; RasH; Transforming protein p21; Transforming protein p21/H-Ras-1; V-Ha-ras Harvey rat sarcoma viral oncogene; V-Ha-ras Harvey rat sarcoma viral oncogene homolog |
| <b>UniProt ID:</b>             | P01112                                                                                                                                                                           |
| <b>Protein Molecular Mass:</b> | 21,298 Da (189 AA)                                                                                                                                                               |

### Immunogen

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human HRAS                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Antibody Immunogen Sequence:</b>    | DAF(pY)TLV(βA)C                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues D154 to V160. The effect of Y157 phosphorylation is unknown. This phosphosite is found in K- and N-Ras. This is the major <i>in vivo</i> phosphorylation site in HRAS (16 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in red bread mould. HRAS is known to be phosphorylated at this site <i>in vitro</i> by Src. |
| <b>Antibody Target Type:</b>           | Phosphosite-specific                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Production

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Host Species:</b>  | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Antibody Type:</b>          | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Antibody Isotype:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Production Method:</b>      | The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| <b>Amount:</b>                 | 25 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Antibody Concentration:</b> | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer:</b>         | Phosphate buffered saline pH 7.4, 0.05% Thimerasol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Conditions:</b>     | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Stability:</b>      | >2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Applications

|                                       |                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray                                                                            |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting                                                                                        |
| <b>Antibody Species Reactivity:</b>   | Human   Chimpanzee   Dog   Rat   Mouse   Chicken   Frog   Zebra fish   Fruit fly   Nematode worm   Red bread mold |

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987