

# AB-PN708

## MSH6-pS14 Antibody

Phosphosite-specific rabbit polyclonal antibody for MSH6. This phosphoserine-site antibody also cross-reacts with phosphothreonine, and glutamic acid substitutions in the phosphosite.

Website: [www.kinexus.ca](http://www.kinexus.ca)  
Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547



Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

### Target Protein

|                                |                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Name Long:</b>      | DNA mismatch repair protein Msh6                                                                                                                            |
| <b>Protein Alias:</b>          | DNA mismatch repair MSH6; G/T mismatch binding protein; GTBP; GTMBP; MutS 6; MutS homolog 6 (E. coli); MutS-alpha 160 kDa; MutS-alpha 160 kDa subunit; P160 |
| <b>UniProt ID:</b>             | P52701                                                                                                                                                      |
| <b>Protein Molecular Mass:</b> | 152,786 Da (1,360 AA)                                                                                                                                       |

### Immunogen

|                                        |                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human MSH6                                                                                                                                                                                                                                                                                     |
| <b>Antibody Immunogen Sequence:</b>    | FPK(pS)PAL(βA)C                                                                                                                                                                                                                                                                                                                         |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues F11 to L17. The effect of S14 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in MSH6 (≥123 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish. |
| <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> | 1 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

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|---------------------------------------|----------------------------------------------------------|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray                   |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting                               |
| <b>Antibody Species Reactivity:</b>   | Human   Rhesus macaque   Rat   Mouse   Frog   Zebra fish |

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