

# AB-PN592

## FOXM1-pT611 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXM1



**KINEXUS**

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### Target Protein

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Protein Name Long:</b>      | Forkhead box protein M1                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Alias:</b>          | FKH16; FKHL16; Forkhead box M1; Forkhead homolog 16; Forkhead-related protein FKHL16; FXM1; Hepatocyte nuclear factor 3 forkhead homolog 11; HFH11; HFH-11; HNF-3; HNF-3/fork-head homolog-11; INS-1; M-phase phosphoprotein 2; MPHOSPH2; MPM-2 reactive phosphoprotein 2; MPP2; TGT3; Transcription factor Trident; Trident; WIN; Winged helix factor from INS-1 cells; Winged-helix factor from INS-1 cells; Winged-helix transcription factor Trident |
| <b>UniProt ID:</b>             | Q08050                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Molecular Mass:</b> | 84,283 Da (763 AA)                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### Immunogen

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human FOXM1                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Antibody Immunogen Sequence:</b>    | PISS(pT)PSK(βA)C                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues P607 to K614. T611 phosphorylation facilitates binding histone acetyltransferase CREB binding protein (CBP) to the FoxM1 transcriptional activation domain. This is one of the minor <i>in vivo</i> phosphorylation sites in FOXM1 based on ≥6 high throughput mass spectrometry reports recorded in PhosphoSitePlus. FOXM1 is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), CDK2, CDK4, and CDK6. |
| <b>Antibody Target Type:</b>           | Phosphosite-specific                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Production

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| <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 |

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