

AB-PK825

TAK1-pT184+pT187 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase TAK1



KINEXUS

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

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

| | |
|---------------------------------------|--|
| Name Long: | TGF-beta-activated protein-serine kinase 1; Mitogen-activated protein kinase kinase kinase 7 |
| Alias: | M3K7; MAP3K7; MEKK7; TGF1a; TGF-beta-activated kinase 1; TGF1a; ENSG00000135341 |
| UniProt ID: | O43318 |
| Sequence Predicted Mass (KDa): | 67.196 (606 AA; O43318); 64.230 (579 AA; O43318-2); 56.706 (518 AA; O43318-3); 53.740 (491 AA; O43318-4) |
| Observed SDS-PAGE Mass (KDa): | 67-85 |

Immunogen

| | |
|-------------------------------------|--|
| Antibody Immunogen Source: | Human TAK1 sequence peptide Cat. No.: PE-04APW99 |
| Antibody Immunogen Sequence: | DIQ(pT)HM(pT)NNK(bA)C (bA) = beta-alanine |
| Location in Target: | Corresponds to amino acid residues D181 to K190; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. |
| Peptide Type: | For phosphosite-specific recognition of target. |
| Target Phosphosite: | Thr-184+Thr-187 |

Production

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|--|--|
| Antibody Host Species: | Rabbit |
| Antibody Type: | Polyclonal |
| Antibody Ig Isotype Clone Lot: | Immunoglobulin G |
| Production Method: | 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 each animal 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. This antibody was also subject to negative purification over phosphotyrosine-agarose. |
| Antibody Amount: | 25 µg |
| Antibody Concentration: | 0.5 mg/ml |
| Lot Number: | 150305 |
| Storage Buffer: | Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol |
| Storage Conditions and Stability: | 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. |

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Applications

| | |
|--|--|
| Product Use: | Western blotting Antibody microarrays |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human, mouse, rat and many other mammals |
| Antibody Positive Controls: | Medium immunoreactivity with immunogen peptide on dot blots. |
| Detection by Immunoblotting in Cell/Tissue Lysates: | Medium immunoreactivity of a target-sized protein by Western blotting in Jurkat and MCF7 cells. |
| Overall Antibody Specificity: | Medium selectivity |
| Antibody Cross Reactivities: | In HepG2 cells, very high background and antibody detects many cross-reactive proteins. In HeLa, Jurkat, and MCF7 cells, this antibody strong cross-reacts with a 40 KDa protein. In MCF7 cells, a 110-140 KDa doublet is also detected in MCF7 cells. |

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 www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)