

AB-PK826

TAO1-pS181 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase TAO1 (TAOK1)



KINEXUS

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Target Protein

Name Long:	Serine/threonine-protein kinase TAO1
Alias:	FLJ14314; HKFC-B; KIAA1361; MAP3K16; MARKK; PSK2; STE20-like kinase PSK2; TAOK1; TAO kinase 1; KFC-B; MARKK; h KFC-B; ENSG00000160551
UniProt ID:	Q7L7X3
Sequence Predicted Mass (KDa):	116.070 (1001 AA; Q7L7X3); 97.526 (853 AA; Q7L7X3-3); 46.163 (398 AA; Q7L7X3-2)
Observed SDS-PAGE Mass (KDa):	110-125

Immunogen

Antibody Immunogen Source:	Human TAO1 (TAOK1) sequence peptide Cat. No.: PE-04ALF99
Antibody Immunogen Sequence:	PAN(pS)FVG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues P178 to G184; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-181

Production

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:	0.75 mg/ml
Lot Number:	141024
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:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Weak to medium immunoreactivity of a target-sized protein by Western blotting in HeLa cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities except for a~ 77 KDa protein in HEK-293, HeLa, Jurkat and T98G 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)