

AB-PK664

IRAK1-pT387 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase IRAK1



KINEXUS

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Target Protein

Name Long:	Interleukin 1 receptor-associated kinase 1 (Pelle-like protein kinase)
Alias:	IL1RAK; IRAK; IRAK-1; Kinase IRAK1; MPLK; Pelle; Pelle-like protein kinase
UniProt ID:	P51617
Sequence Predicted Mass (KDa):	76.537 (712 AA; P51617); 74.560 (693 AA; P51617-3); 73.421 (682 AA; P51617-2); 68.022 (633 AA; P51617-4)
Observed SDS-PAGE Mass (KDa):	72-80

Immunogen

Antibody Immunogen Source:	Human IRAK1 sequence peptide Cat. No.: PE-04AMY95
Antibody Immunogen Sequence:	VRG(pT)LAY(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues V384 to Y390; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-387

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 multipep 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 / 0.5 mg/ml
Lot Number:	150305 / 160301
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells and insulin-treated MCF7 cells, when these cells were homogenized in SDS-PAGE sample buffer, except for a 26K cross-reactive protein in EGF-treated HeLa 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)