

AB-PK656

ICK-pY159 Antibody

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



KINEXUS

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Target Protein

Name Long:	Intestinal cell (MAK-like) kinase
Alias:	ECO; HICK; Intestinal cell (MAK-like) kinase; Intestinal cell kinase; KIAA0936; Kinase ICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MGC46090; MRK; Serine/threonine kinase ICK
UniProt ID:	Q9UPZ9
Sequence Predicted Mass (kDa):	71.427 (632 AA; Q9UPZ9); 34.071 (292 AA; Q9UPZ9-2)
Observed SDS-PAGE Mass (kDa):	64-67

Immunogen

Antibody Immunogen Source:	Human ICK sequence peptide
Antibody Immunogen Sequence:	YTD(pY)VST(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues Y156 to T162; In the protein kinase catalytic domain in subdomain I.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-159

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:	141017
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:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in MCF7 cells, except for 2 low molecular mass proteins. In maturing sea star oocytes, the induction of strong phosphorylation of a 30 KDa cross-reactive protein was observed.

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)