

AB-PK675

Ksr1-pS406 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Ksr1



KINEXUS

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Target Protein

Name Long:	Protein-serine kinase suppressor of Ras 1
Alias:	CAP kinase; Ceramide-activated protein kinase; HB; HB protein; KSR; KSR1; Kinase suppressor of ras 1; Kinase suppressor of RAS-1; RSU2; ENSG00000141068
UniProt ID:	Q8IVT5
Sequence Predicted Mass (kDa):	102.160 (923 AA; Q8IVT5); 97.115 (877 AA; Q8IVT5-2); 87.344 (786 AA; Q8IVT5-3); 84.697 (762 AA; Q8IVT5-4)
Observed SDS-PAGE Mass (kDa):	105-120

Immunogen

Antibody Immunogen Source:	Human Ksr1 sequence peptide Cat. No.: PE-04ANE99
Antibody Immunogen Sequence:	RTE(pS)VPS(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R401 to S407; In the region between the KSR1-SAM and kinase catalytic domains. This is the major in vivo phosphorylation site in Krs1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-406

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 multipепptide 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% 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:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactivities in HepG2, Jurkat and T98G cells and in sea star oocytes, except for a ~65 KDa protein in HepG2 and T98G cells, and a strong 50 KDa protein in sea star oocytes.

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)