

AB-PK876

EIF2AK1-pS258 Antibody

Phosphosite-specific rabbit polyclonal antibody for HRI (HCR; EIF2AK1)



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Target Protein

Protein Name Long:	Eukaryotic translation initiation factor 2-alpha kinase 1
Protein Alias:	E2AK1; EC 2.7.11.1; EIF2AK1; HCR; HRI; Heme-controlled repressor; heme-regulated inhibitor; Hemin-sensitive initiation factor-2 alpha kinase
UniProt ID:	Q9BQI3
Protein Molecular Mass:	71,106 Da (629 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human EIF2AK1
Antibody Immunogen Sequence:	EVL(pS)DQE(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues E255 to E261. The effect of S258 phosphorylation is unknown. It appears to be the most commonly observed phosphosite in HRI from high throughput mass spectrometry studies (≥12 reports).
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
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 these animals 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.
Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus Macaque Rat Mouse

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987