

AB-PN820

eIF2 α -pS52 Antibody

Phosphosite-specific rabbit polyclonal antibody for eIF2 α . This phosphoserine-site antibody also weakly cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Eukaryotic translation initiation factor 2-alpha
Protein Alias:	65 kDa eukaryotic translation initiation factor 2A; EIF-2A; Eukaryotic translation initiation factor 2A, 65kDa
UniProt ID:	P05198
Protein Molecular Mass:	64,990 Da (585 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human eIF2 α
Antibody Immunogen Sequence:	CSEL(pS)RRR
Antibody Immunogen Description:	Corresponds to amino acid residues S49 to R55. S53 has phosphorylation has been reported to increased and inhibit activity. It is a minor site of <i>in vivo</i> phosphorylation with ≥ 2 mass spectrometry reports recorded in PhosphoSitePlus, but there has been at least 141 reports for this sites phosphorylation in low throughput studies. eIF2 α is known to be phosphorylated at this site <i>in vitro</i> by ERK2 (MAPK1), HRI (EIF2AK1), MARK2, p38a, PERK, PKR (EIF2AK2), and RSK2.
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 multi-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 μ g
Antibody Concentration:	0.9 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 Cow Rat Rabbit Mouse Platypus Chicken Frog Zebra fish Fruit fly Honey bee Sea urchin Budding yeast

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