

AB-PN1004

eIF4G1-pS1185+pS1187 Antibody

Phosphosite-specific rabbit polyclonal antibody for eIF4G1



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Target Protein

Protein Name Long:	Eukaryotic translation initiation factor 4 gamma 1
Protein Alias:	EIF4F; EIF4G; EIF-4G; EIF-4G 1; EIF-4G1; EIF-4-gamma 1; EIF4GI; Eukaryotic translation initiation factor 4 gamma, 1; Eukaryotic translation initiation factor 4GI; IF4G1; P220
UniProt ID:	Q04637
Protein Molecular Mass:	175,535 Da (1,600 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human eIF4G1
Antibody Immunogen Sequence:	CATKR(pS)F(pS)KEVE
Antibody Immunogen Description:	Corresponds to amino acid residues A1181 to E1191. S1185 phosphorylation stimulates enzymatic activity. S1185 and S1187 are amongst the most <i>in vivo</i> phosphorylated sites with ≥ 187 and ≥ 82 mass spectrometry reports, respectively, in PhosphoSitePlus. eIF4G1 is known to be phosphorylated <i>in vitro</i> at S1185: by PKCA (PRKCA).
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 μ g
Antibody Concentration:	0.8 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 Mouse Rabbit

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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