AB-PN550

4E-BP1-pT37+pT46 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human 4E-BP1 (PHAS1)

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	4E transcription factor binding protein 1
Alias:	4EBP1; EIF4EBP1; Eukaryotic translation initiation factor 4E binding protein 1; Insulin-stimulated EIF-4E binding protein PHAS-I; P,OKCL.6; P/OKCL.6; PHAS-1; PHAS-I; Phosphorylated heat- and acid-stable protein regulated by insulin 1
UniProt ID:	Q13541
Sequence Predicted Mass (KDa):	12580 (118 AA; Q13541)
Observed SDS-PAGE Mass (KDa):	16-18

Immunogen

Antibody Immunogen Source:	Human 4E-BP1 (PHAS1) sequence peptide Cat. No.: PE-04AQU90
Antibody Immunogen Sequence:	DYST(pT)PGG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D33 to G40; In the N-terminal portion of the translation regulatory protein. This is one of the major in vivo phosphorylation sites in 4E-BP1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-37+Thr-46

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 multipep 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:	1 mg/ml
Lot Number:	160301
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
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells and insulin-treated MCF7 cells, when these cells were homogenized in SDS-PAGE sample buffer.