

AB-PN552

ATF2-pT69 + pT71 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human ATF2



KINEXUS

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Target Protein

Name Long:	Transcription factor ATF2
Alias:	Activating 2; Activating transcription factor 2; CAMP response element binding protein CRE- BP1; CREB2; CREBP1; CRE-BP1; Cyclic-AMP-dependent ATF-2; HB16; MXBP protein; TREB7
UniProt ID:	P15336
Sequence Predicted Mass (KDa):	54537 (505 AA; P15336-1); 52.277 (487 AA; P15336-5); 48.013 (447 AA; P15336-4); 35.044 (329 AA; P15336-2); 24.097 (219 AA; P15336-7); 23.050 (209 AA; P15336-3); 15.409 (144 AA; P15336-8); 13.149 (126 AA; P15336-6)
Observed SDS-PAGE Mass (KDa):	55-70

Immunogen

Antibody Immunogen Source:	Human ATF2 sequence peptide Cat. No.: PE-04ARD99
Antibody Immunogen Sequence:	ADQ(pT)P(pT)PTR(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues A66 to R74; In the N-terminus of the transcription factor. These are the major in vivo sites of phosphorylation of ATF2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-69+Thr-71

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:	1 mg/ml
Lot Number:	160301
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
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Weak 37 and 43 KDa cross-reactive proteins were detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells, and insulin-treated MCF7 cells, when these cells were directly homogenized into SDS-PAGE sample buffer.

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)