

AB-PN626

MITF-pS414 Antibody

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

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Target Protein

Protein Name Long:	Microphthalmia-associated transcription factor
Protein Alias:	BHLHe32; BW; Homolog of mouse microphthalmia; MI; VIT; WS2A
UniProt ID:	O75030
Protein Molecular Mass:	58,795 Da (526 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human MITF
Antibody Immunogen Sequence:	TGLA(pS)PDL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues T410 to D417. The effect of S414 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation sites in MITF (≥24 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). MITF is known to be phosphorylated at this site <i>in vitro</i> by p38a MAPK (MAPK14).
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:	1 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 Rhesus Macaque Mouse Chicken

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