

AB-PK953

MuSK-pY554 Antibody

Phosphosite-specific rabbit polyclonal antibody for MuSK. This phosphotyrosine-site antibody also weakly cross-reacts with phosphothreonine, phosphoserine, serine, threonine and glutamic acid

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Target Protein

Protein Name Long:	Muscle, skeletal receptor tyrosine protein kinase
Protein Alias:	Muscle specific tyrosine kinase receptor
UniProt ID:	O15146
Protein Molecular Mass:	97,056 Da (869 AA; O15146); 87,598 Da (783 AA; O15146-2); 86,425 Da (773 AA; O15146-3)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human MuSK
Antibody Immunogen Sequence:	PNPM(pY)QRM(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues P550 to M557. Y554 phosphorylation induces interaction with DOK7, which in turn stimulates the phosphorylation and activation of MUSK. This is the major <i>in vivo</i> phosphorylation site in MUSK (≥ 3 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). MuSK is known to be phosphorylated at this site <i>in vitro</i> by MUSK.
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 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 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:	0.2 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 Platypus 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