

AB-PN678

TP53BP1-pT1056 Antibody

Phosphosite-specific rabbit polyclonal antibody for TP53BP1. This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	Tumor suppressor p53-binding protein 1
Protein Alias:	53BP1; P202; P531; P53-binding protein 1; TP53B; TRP53BP1; Tumor protein p53 binding protein 1
UniProt ID:	Q12888
Protein Molecular Mass:	213,574 Da (1,972 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TP53BP1
Antibody Immunogen Sequence:	DPPT(pT)PIRGC
Antibody Immunogen Description:	Corresponds to amino acid residues D1052 to G1060. The effect of T1056 phosphorylation is unclear. This is a major site of <i>in vivo</i> phosphorylation of TP53BP1 (≥33reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). TP53BP1 is known to be phosphorylated at this site <i>in vitro</i> by ERK1 (MAPK3).
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 multi-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 Chimpanzee Rhesus macaque Dog

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