

AB-PK956

COT-pT290 Antibody

Phosphosite-specific rabbit polyclonal antibody for COT (MAP3K8; TPL2)



KINEXUS

Website: www.kinexus.ca

Email: info@kinexus.ca

Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1

Vancouver, British Columbia,

Canada V6P 6T3

Target Protein

Protein Name Long:	Osaka thyroid oncogene protein-serine kinase (Tpl2); Mitogen-activated protein kinase kinase kinase 8
Protein Alias:	FLJ10486; M3K8; MAP3K8; Tpl2; TPL2; TPL-2; tumour progression locus 2; Cot; ESTF; EST; Tpl-2; c-Cot; ENSG00000107968
UniProt ID:	P41279
Protein Molecular Mass:	52,925 Da (467 AA; P41279); 49,620 Da (438 AA; P41279-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human COT
Antibody Immunogen Sequence:	DLRG(pT)EIY(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues D286 to Y293. T290 phosphorylation is reported to be stimulatory for phosphotransferase activity, although its placement in the kinase activation loop between catalytic subdomains VII and VIII indicates that it should be inhibitory. The phosphorylation of this site has not been reported in high throughput mass spectrometry studies recorded in PhosphoSitePlus.
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 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 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:	0.7 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 Dog Rat Mouse Platypus Chicken Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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