

AB-PN798

KMT2C-pS4267 Antibody

Phosphosite-specific rabbit polyclonal antibody for KMT2C (MLL3). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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:	Histone-lysine N-methyltransferase MLL3
Protein Alias:	HALR; Histone-lysine N-methyltransferase, H3 lysine-4 specific MLL3; KIAA1506; KMT2C; Myeloid/lymphoid or mixed-lineage leukemia 3; Myeloid/lymphoid or mixed-lineage leukemia protein 3 homologue
UniProt ID:	Q8NEZ4
Protein Molecular Mass:	541,370 Da (4,911 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human KMT2C
Antibody Immunogen Sequence:	LPQ(pS)PMR(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues L4264 to R4270. The effect of S4267 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in KMT2C based on ≥ 52 mass spectrometry reports 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 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 μ g
Antibody Concentration:	0.6 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 Rat Mouse

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

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