

AB-PN746

DNMT3A-pS105 Antibody

Phosphosite-specific rabbit polyclonal antibody for DNMT3A



KINEXUS

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Target Protein

Protein Name Long:	DNA (cytosine-5)-methyltransferase 3A
Protein Alias:	DNA cytosine methyltransferase 3 alpha; DNA cytosine methyltransferase 3A2; DNA methyltransferase HsaIIIA; DNA MTase HsaIIIA; DNMT3A; DNMT3A2; EC 2.1.1.37; M.HsaIIIA
UniProt ID:	Q9Y6K1
Protein Molecular Mass:	101,858 Da (912 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human DNMT3A
Antibody Immunogen Sequence:	EEG(pS)PAG(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues E102 to G108. The effect of S105 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in DNMT3 (≥ 49 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is not conserved in vertebrates and may be restricted to humans.
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:	0.3 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 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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