

AB-PN605

HMGA1-pS36+pT39 Antibody

Phosphosite-specific rabbit polyclonal antibody for HMGA1



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Target Protein

Protein Name Long:	High mobility group protein HMG-I/HMG-Y
Protein Alias:	High mobility group AT-hook 1; High mobility group AT-hook protein 1; High mobility group protein A1; High mobility group protein-R; HMG1; HMG3; HMGB1; HMG-I(Y); HMG1Y
UniProt ID:	P17096
Protein Molecular Mass:	11,676 Da (107 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human HMGA1
Antibody Immunogen Sequence:	PPV(pS)PG(pT)ALVGC
Antibody Immunogen Description:	Corresponds to amino acid residues P33 to G43. S36 and T39 phosphorylation regulates molecular association, including inducing interaction with DNA. These are two of the minor <i>in vivo</i> phosphorylation sites in HMGA1 (≥ 64 and ≥ 27 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). HMGA1 is known to be phosphorylated <i>in vitro</i> at S36 by ERK1 (MAPK3), CDK1, CDK2, and HIPK2.
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:	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 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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