

AB-PN607

HMGB1-pS35+pS39 Antibody

Phosphosite-specific rabbit polyclonal antibody for HMGB1



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:	High mobility group protein B1
Protein Alias:	Amphoterin; DKFZp686A04236; High mobility group box 1; High mobility group protein 1; High-mobility group box 1; HMG1; HMG-1; HMG3; SBP-1; Sulfoglucuronyl carbohydrate binding protein; Sulfoglucuronyl carbohydrate binding protein high-mobility group (nonhistone chromosomal) protein 1
UniProt ID:	P09429
Protein Molecular Mass:	24,894 Da (215 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human HMGB1
Antibody Immunogen Sequence:	PDA(pS)VNF(pS)EFS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues P32 to S42. The effects of S35 and S39 phosphorylation are unknown. S35 and S39 phosphorylation facilitates nucleus to cytoplasmic HMGB1 transport, and regulates cell motility. These are two of the major <i>in vivo</i> phosphorylation sites in HMGB1 (≥22 and 6 reports, respectively, from 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 µg
Antibody Concentration:	0.5 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 Rat Mouse Platypus Chicken Frog

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

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