

AB-PN795

DOR1-pT358+pT361+pS363 Antibody

Phosphosite-specific rabbit polyclonal antibody for DOR1



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Target Protein

Protein Name Long:	Delta-type opioid receptor
UniProt ID:	P41143
Protein Molecular Mass:	40,413 Da (372 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human DOR1
Antibody Immunogen Sequence:	ERV(pT)AS(pT)P(pS)DGPGC
Antibody Immunogen Description:	Corresponds to amino acid residues E355 to G367. T358, T361 and S363 phosphorylation of the S363 site by GRK2 leads to desensitization of the receptor to its agonist and internalization of the receptor. These are minor <i>in vivo</i> phosphorylation sites in DOR1 (≥ 0 , ≥ 1 and ≥ 1 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). DOR1 is known to be phosphorylated <i>in vitro</i> at T361 by GRK2, GRK3. S363: GRK2, and GRK3.
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 multi-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:	0.8 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 $+4^{\circ}\text{C}$ 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 Chicken

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

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