AB-PN643

POU2F1-pS385 Antibody

Phosphosite-specific rabbit polyclonal antibody for POU2F1 (Oct1). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	POU domain, class 2, transcription factor 1
Protein Alias:	NF-A1; OCT1; Oct-1; Octamer-binding transcription factor 1; OTF1; OTF-1; PO21; PO2F1; POU class 2 homeobox 1
UniProt ID:	P14859
Protein Molecular Mass:	76,472 Da (743 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human POU2F1
Antibody Immunogen Sequence:	KKRT(pS)IET(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues K381 to T388. S385 phosphorylation inhibits transcriptional activity by inhibiting DNA binding. This is a major site of *in vivo* phosphorylation of POU2F1 (≥13 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). POU2F1 is known to be phosphorylated at this site *in vitro* by PKACa (PRKACA).
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:	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 | Rhesus macaque | Dog | Rat | Mouse | Platypus | Chicken | Frog