

# AB-PN658

## Smad3-pT8 Antibody

Phosphosite-specific rabbit polyclonal antibody for Smad3. This phosphothreonine-site antibody also cross-reacts with threonine and glutamic acid substitutions in the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Mothers against decapentaplegic homologue 3
<b>Protein Alias:</b>	SMAD3
<b>UniProt ID:</b>	P84022
<b>Protein Molecular Mass:</b>	48,081 Da (425 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human Smad3
<b>Antibody Immunogen Sequence:</b>	ILPF(pT)PPIV(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues I4 to V12. T8 phosphorylation inhibits transcriptional and antiproliferative activities. This is one of the major sites of <i>in vivo</i> phosphorylation of Smad3 based on ≥13 mass spectrometry reports recorded in PhosphoSitePlus. Smad3 is known to be phosphorylated at this site <i>in vitro</i> by CDK2, and CDK4.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rhesus macaque   Dog   Rat   Mouse   Platypus   Chicken   Frog   Zebra fish   Sea urchin

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

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987