

Product datasheet for TA332821

SMAD4 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50- 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human SMAD4
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	552
Gene Name:	SMAD family member 4
Database Link:	<u>NP_005350</u> <u>Entrez Gene 17128 MouseEntrez Gene 50554 RatEntrez Gene 4089 Human</u> <u>Q13485</u>

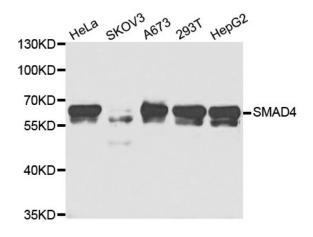


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SMAD4 Rabbit Polyclonal Antibody – TA332821

Background:	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.
Synonyms:	DPC4; JIP; MADH4; MYHRS
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Adherens junction, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Pancreatic cancer Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway

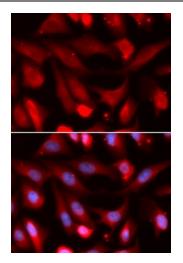
Product images:



Western blot analysis of extracts of various cell lines, using SMAD4 antibody.

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Immunofluorescence analysis of U20S cell using SMAD4 antibody. Blue: DAPI for nuclear staining.

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