

Product datasheet for **TA347048**

SMAD5 Mouse Monoclonal Antibody [Clone ID: 4B10-B10-B6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B10-B10-B6
Applications:	FC, IF, WB
Recommended Dilution:	WB: 1:1000, IF: 1:75, FC: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for SMAD5 antibody: purified recombinant human SMAD5 (C-terminus) protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60 kDa
Gene Name:	SMAD family member 5
Database Link:	NP_001001420 Entrez Gene 4090 Human Q99717

Background: SMAD5 is a member of the Mothers Against Dpp (MAD)-related family of proteins. It is a receptor-regulated SMAD (R-SMAD), and acts as an intracellular signal transducer for the transforming growth factor beta superfamily. SMAD5 is activated through serine phosphorylation by BMP (bone morphogenetic proteins) type 1 receptor kinase. It is cytoplasmic in the absence of its ligand and migrates into the nucleus upon phosphorylation and complex formation with SMAD4. Here the SMAD5/SMAD4 complex stimulates the transcription of target genes.



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Synonyms: DWFC; JV5-1; MADH5

Protein Families: Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Protein Pathways: TGF-beta signaling pathway