Phospho-Smad5 (Ser463/Ser465) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Smad5, Blocking Peptide
Full Product Name	Phospho-Smad5 (Ser463/Ser465) Blocking Peptide
Product Gene Name	Smad5 blocking peptide
Product Synonym Names	DKFZp781C1895; DKFZp781O1323; Dwfc; hSmad5; JV5 1; JV5-1; MAD homolog 5; MAD, mothers against decapentaplegic homolog 5; MADH 5; MADH5; Mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5; Mothers against DPP homolog 5; MusMLP; SMA and MAD related protein 5; SMAD 5; SMAD family member 5; SMAD, mothers against DPP homolog 5; Smad5; SMAD5_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Smad5 (Ser463/Ser465) peptide (MBS9623136) is used for blocking the activity of Smad5 (Ser463/Ser465) antibody (MBS9604419)
Molecular Weight	465
Chromosome Location	Chromosome: 5; NC_000005.9 (135468536..135518422). Location: 5q31
OMIM	603110
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for Smad5 blocking peptide	Blocking/Control
Related Product Information for Smad5 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of Smad5 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Smad5 purchase	MBS9623136 is a blocking peptide targeting Smad5. Also known as Phospho-Smad5 (Ser463/Ser465) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smad5. It may not necessarily be applicable to this product.

NCBI GI #	47778929

NCBI GeneID	4090
NCBI Accession #	NP_001001419.1
UniProt Primary Accession #	Q99717
UniProt Secondary Accession #	O14688; Q15798; Q9UQA1
UniProt Related Accession #	Q99717
GenBank Nucleotide #	NM_001001419.2
NCBI Official Full Name	mothers against decapentaplegic homolog 5
NCBI Official Synonym Full Names	SMAD family member 5
NCBI Official Symbol	SMAD5
NCBI Official Synonym Symbols	DWFC; JV5-1; MADH5
UniProt Protein Name	Mothers against decapentaplegic homolog 5
UniProt Synonym Protein Names	JV5-1; SMAD family member 5
Protein Family	Mothers against decapentaplegic
UniProt Gene Name	SMAD5
UniProt Synonym Gene Names	MADH5; MAD homolog 5; Mothers against DPP homolog 5; SMAD 5; Smad5; hSmad5
UniProt Entry Name	SMAD5_HUMAN
NCBI Protein Information	mothers against decapentaplegic homolog 5; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; MAD, mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5
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