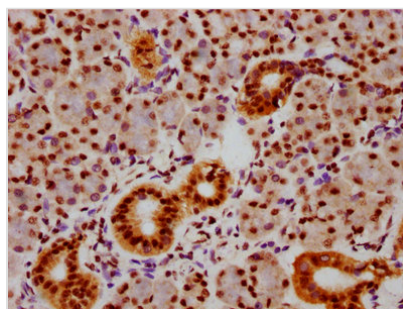




Phospho-SMAD5 (S463+S465) Recombinant Monoclonal Antibody

Product Code	CSB-RA859108A463phHU
Abbreviation	Mothers against decapentaplegic homolog 5
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q99717
Immunogen	A synthesized peptide derived from Human Phospho-SMAD5 (S463+S465)
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Mothers against decapentaplegic homolog 5, MAD homolog 5, Mothers against DPP homolog 5, JV5-1, SMAD family member 5, SMAD 5, Smad5, hSmad5, SMAD5, MADH5
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	SMAD5
Clone No.	2G11

Image



IHC image of CSB-RA859108A463phHU diluted at 1:100 and staining in paraffin-embedded human pancreatic tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description



This phosphorylated SMAD5 antibody CSB-RA859108A463phHU is a recombinant monoclonal antibody produced from the expression of the plasmids that were integrated by the phospho-SMAD5 (S463+S465) monoclonal antibody DNA sequence in cell lines. The phospho-SMAD5 (S463+S465) monoclonal antibody was generated from splenocytes isolated from the animals that were immunized with the human phospho-SMAD5 (S463+S465). The phospho-SMAD5 (S463+S465) recombinant antibody is a rabbit IgG antibody. It underwent purification using the affinity-chromatography method. It can detect the human phospho-SMAD5 (S463+S465). And it is suitable for ELISA and IHC analyses.

SMAD5 is a receptor-activated Smad that serves as an intracellular signal transducer for the transforming growth factor (TGF) superfamily. SMAD5 regulates cytoplasmic metabolic machinery and works as an intracellular pH messenger to maintain cell bioenergetic balance. SMAD5 is a negative regulator of embryonic hematopoiesis in a haploinsufficiency form, according to a recent study by Bing Liu et al., which helps to understand the cytogenetic mechanism by which SMAD5 serves as a leukemia suppressor.