



SMAD5(C-term)

Mouse monoclonal Antibody

#53153

Catalog Number: 53153

Amount: 100µg/100µl

Swiss-Prot No. : Q99717

Gene name: smad5

Gene id: 4090

Clone Number: 4B10-B10-B6

Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Storage/Stability: Store at -20°C/1 year

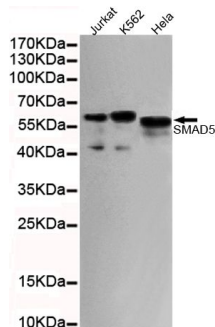
Immunogen: Purified recombinant human SMAD5(C-term) protein fragments expressed in E.coli

Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of SMAD5(C-term) and does not cross-react with related proteins

Reactivity: Human

Applications: Predicted MW: 60kd WB: 1:1000 ICC:1:75



Western blot detection of SMAD5 (C-terminus) in HeLa, Jurkat and K562 cell lysates using SMAD5 (C-terminus) mouse mAb (1:1000 diluted). Predicted band size: 52KDa. Observed band size: 60KDa.

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.