

AB-82128 Anti-Smad1 Antibody

Size: 100 ug

Concentration: 1mg/ml

Host: Rabbit

Isotype: IgG

Immunogen: A synthetic peptide corresponding to a sequence at the C-terminus of mouse Smad1(253-267aa AEISRGDVQAVAYEE), different from the related rat sequence by one amino acid, and different from the related human sequence by two amino acids.

Buffer: Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.

Purity: Immunogen affinity purified.

Form: Liquid

Species Reactivity: Human, Mouse, Rat

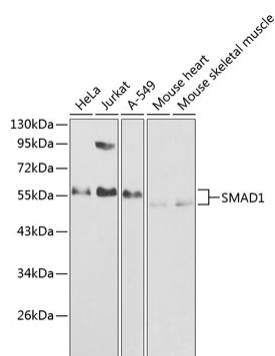
No cross reactivity with other proteins

Protein Function: Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD) (By similarity). May play a role in the initiation and maintenance of spermatogenesis. SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1 (By similarity). May act synergistically with SMAD4 and YY1 in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression (PubMed:15329343).

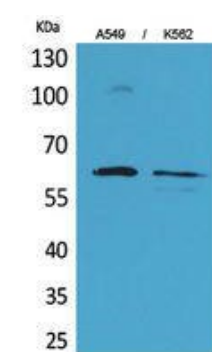
Applications: **Immunocytochemistry** , 1:50 -1:200
Immunohistochemistry(Paraffin-embedded Section), 1:50-1:200, Human, Rat, Mouse, By Heat
Western blot, 1:500-1:2000 Human, Mouse, Rat
Application details contain suggested dilutions. End user should optimize the final working concentrations.

Molecular Weight: **Calculated MW: 52kDa Observed MW: 60 kDa**

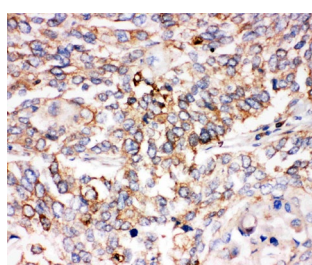
Storage: At -20°C for one year. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



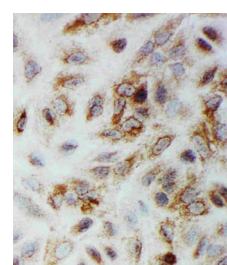
Western blot analysis of extracts of various cell lines, using SMAD1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST



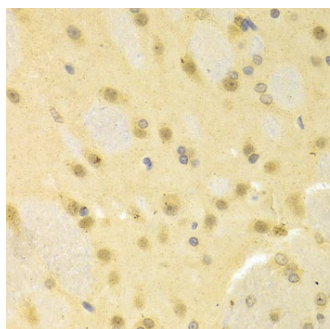
Western Blot analysis of A549, K562 cells using Smad1 Polyclonal antibody. Secondary antibody was diluted at 1:20000



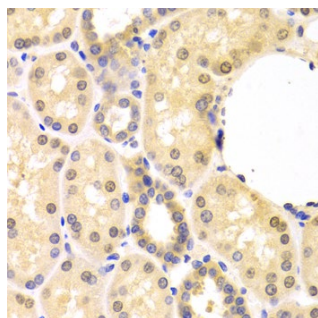
Anti-Smad1 antibody, IHC(P)
IHC(P): Human Lung Cancer Tissue Anti-Smad1



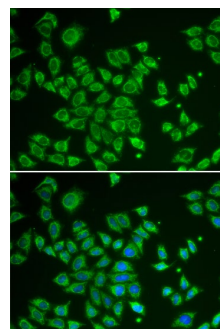
Anti-Smad1 antibody, ICC
ICC: A549 Cell



Immunohistochemistry of paraffin-embedded rat brain using SMAD1 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human kidney using SMAD1 antibody at dilution of 1:100 (40x lens).



Immunofluorescence analysis of HeLa cells using SMAD1 antibody. Blue: DAPI for nuclear staining