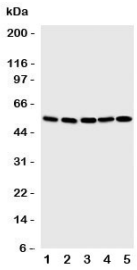
# SMAD5 Antibody (R31228)

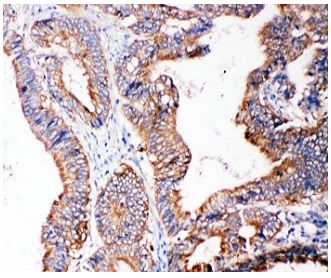
| Catalog No. | Formulation | Size |
|---|---|---|
| R31228 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

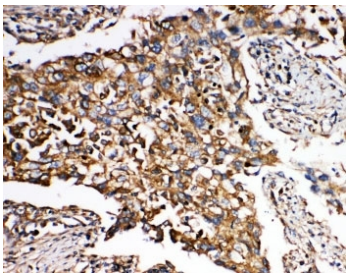
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | Q99717 |
| **Applications** | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 0.5-1ug/ml |
| **Limitations** | This SMAD5 antibody is available for research use only. |



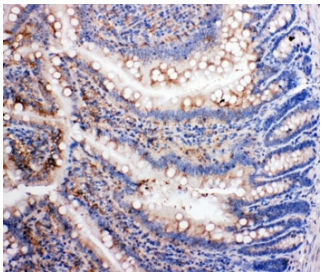

Western blot testing of SMAD5 antibody and Lane 1: human K562; 2: (h) Jurkat; 3: rat PC-12; 4: (h) HeLa; 5: (h) SMMC-7721 cell lysate. Observed molecular weight: 52~60 kDa.



IHC-P: SMAD5 antibody testing of human intestine cancer tissue



IHC-P: SMAD5 antibody testing of human lung cancer tissue



IHC-P: SMAD5 antibody testing of rat intestine tissue

## Description

Mother against decapentaplegic homolog 5, also called SMAD family member 5, is a protein that in humans is encoded by the SAMD5 gene. It belongs to the SMAD family of proteins, which belong to the TGFbeta superfamily of modulators. The gene was assigned to human chromosome 5q31. Like many other TGFbeta family members SMAD5 is involved in cell signalling and modulates signals of bone morphogenetic proteins(BMP's). It may play a role in the pathway where TGFbeta is an inhibitor of hematopoietic progenitor cells.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SMAD5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the middle region of human SMAD family member 5 (IPQIMPSISSRDVQPVAYEE) was used as the immunogen for this SMAD5 antibody (100% rat homology).

## Storage

After reconstitution, the SMAD5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.