

Smad3(Ab-425) Antibody

Catalog No: #21325

Package Size: #21325-1 50ul #21325-2 100ul

Description

Product Name	Smad3(Ab-425) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Smad3 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.423~427 (C-S-S-V-S) derived from Human Smad3.
Conjugates	Unconjugated
Target Name	Smad3
Other Names	JV15-2; MAD-3; MADH3; Mad3; Mothers against DPP homolog 3
Accession No.	Swiss-Prot: P84022NCBI Protein: NP_001138574.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

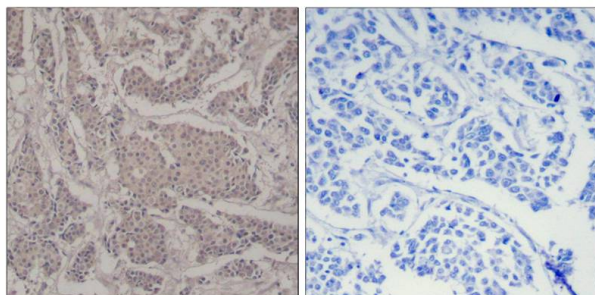
Predicted MW: 52kd

Western blotting 1:500~1:1000

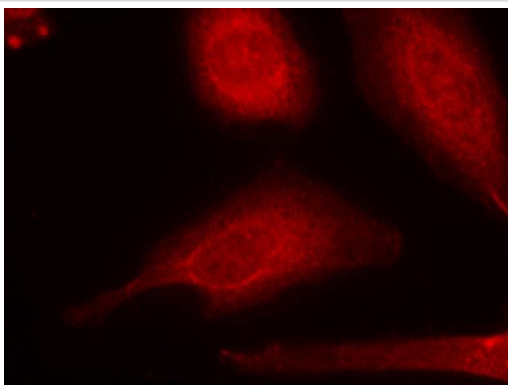
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

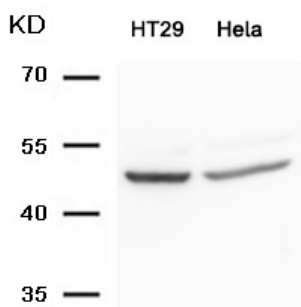
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Smad3(Ab-425) Antibody #21325(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using Smad3(Ab-425) Antibody #21325.



Western blot analysis of extracts from HT29 and HeLa cells using Smad3 Antibody #21325.

Background

Smad3 encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the *Drosophila* gene 'mothers against decapentaplegic' (Mad) and the *C. elegans* gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis.

Shi W, et al. J Cell Sci. 2007 Apr 1;120(Pt 7):1216-24

Seong HA, et al. J Biol Chem. 2007 Apr 20;282(16):12272-89

Wordinger RJ, et al. Invest Ophthalmol Vis Sci. 2007 Mar;48(3):1191-200

LeClair RJ, et al. Circ Res. 2007 Mar 30;100(6):826-33

Published Papers

el at., TGF β 1 mediated Smad signaling pathway and EMT in hepatic fibrosis induced by Nano NiO in vivo and in vitro. In Environ Toxicol on 2020 Apr by Zhang Q, Chang X ,et al..PMID: 31737983, , (2020)

[PMID:31737983](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.