

Product datasheet for AP01455PU-N

SMAD3 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

IHC, WB **Applications:**

Recommended Dilution: Western Blot: 1/500-1/1000.

Immunohistochemistry on Paraffin Sections: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of Smad3 protein.

Formulation: Phosphate buffered saline (PBS), pH~7.2 with 0.05% Sodium Azide as preservative

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~48 kDa

Gene Name: SMAD family member 3 Database Link: Entrez Gene 4088 Human

P84022



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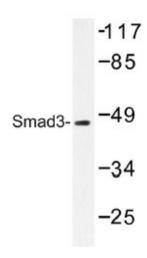
Background:

Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) or BMP receptor regulated (Smad 1, 5, and 8); the common partner, (Smad4) that functions via its interaction to the various Smads; and the inhibitory Smads, (Smad6 and 7). Activated Smad3 oligomerizes with Smad4 upon TGF beta stimulation and translocates as a complex into the nucleus, allowing its binding to DNA and transcription factors. Phosphorylation of the two TGF beta dependent serines 423 and 425 in the C terminus of Smad3 is critical for Smad3 transcriptional activity and TGF beta signaling.

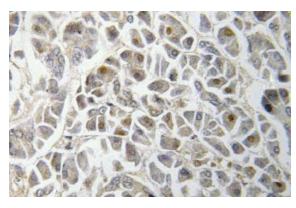
Synonyms:

SMAD family member 3, SMAD 3, SMAD-3, Mad3, MAD-3, MADH3, MAD homolog 3, JV15-2

Product images:



Western blot (WB) analysis of Smad3 antibody (Cat.-No.: AP01455PU-N) in extracts from HUVEC cells.



Immunohistochemistry (IHC) analysis of Smad3 antibody (Cat.-No.: AP01455PU-N) in paraffinembedded human colon carcinoma tissue.