

Datasheet for ABIN3032620
anti-SMAD3 antibody (AA 127-156)



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5 Images

Overview

Quantity:	0.4 mL
Target:	SMAD3
Binding Specificity:	AA 127-156
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 127-156 from the human protein was used as the immunogen for this SMAD3 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Pig, Chicken
Purification:	Antigen affinity purified

Target Details

Target:	SMAD3
Alternative Name:	SMAD3 (SMAD3 Products)
Background:	SMAD3 is a receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and

Target Details

transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. [UniProt]

UniProt:	P84022
Pathways:	Cell Division Cycle , Chromatin Binding , Cell-Cell Junction Organization , Positive Regulation of Endopeptidase Activity , Autophagy

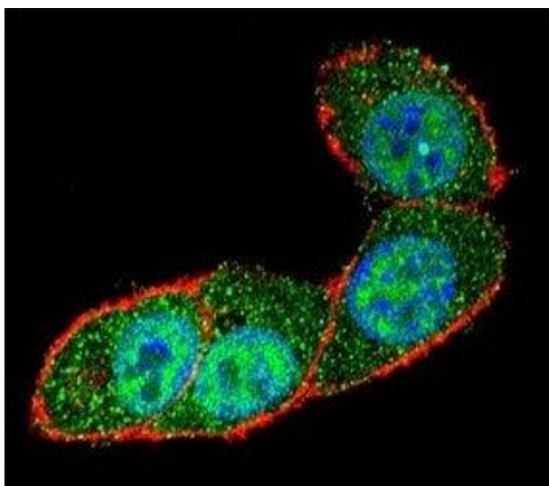
Application Details

Application Notes:	Titration of the SMAD3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50,IHC (Paraffin): 1:10-1:50
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Restrictions:	For Research Use only
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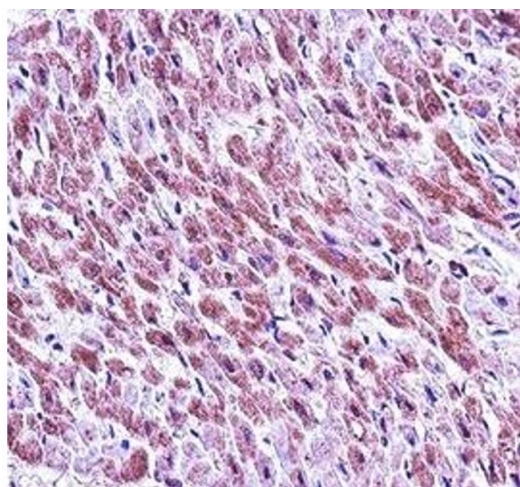
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the SMAD3 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



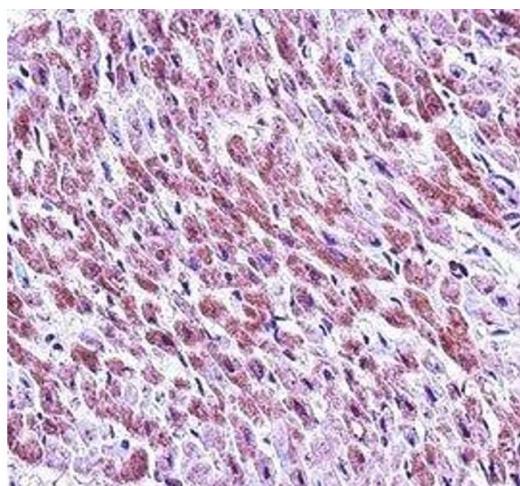
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of SMAD3 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (bl



Immunohistochemistry

Image 2. SMAD3 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue.



Immunohistochemistry

Image 3. SMAD3 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3032620.