

Smad3 (phospho Ser204) rabbit pAb

Cat No.: ES1435

For research use only

Overview

Immunogen

Specificity

Product Name Smad3 (phospho Ser204) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA **Species Cross-Reactivity** Human;Mouse;Rat

Recommended dilutions Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. The antiserum was produced against synthesized

peptide derived from human Smad3 around the phosphorylation site of Ser204. AA range:170-219 Phospho-Smad3 (S204) Polyclonal Antibody detects

endogenous levels of Smad3 protein only when

phosphorylated at S204.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Mothers against decapentaplegic homolog 3

Gene Name SMAD3

Cellular localization Cytoplasm . Nucleus . Cytoplasmic and nuclear in

the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4 (PubMed:15799969, PubMed:21145499). Through the action of the phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101, PubMed:19289081). Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15601644). MAPK-mediated phosphorylation appears to have no effect on nuclear import (PubMed:19218245). PDPK1 prevents its nuclear translocation in response to TGF-beta (PubMed:17327236). Localized mainly to



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Purification

the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm of the inner cell mass at the blastocyst stage (By similarity)

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

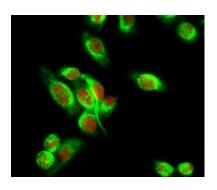
Clonality Polyclonal
Concentration 1 mg/ml
Observed band 48kD
Human Gene ID 4088
Human Swiss-Prot Number P84022

Alternative Names

SMAD3; MADH3; Mothers against decapentaplegic

homolog 3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3
The protein 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. [provided by

Background

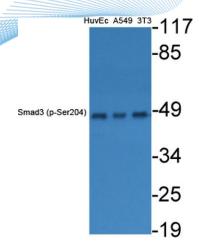


Immunofluorescence analysis of Hela cell. 1,Smad3 (phospho Ser204) Polyclonal Antibody(red) was diluted at 1:200(4° overnight). LC3A mouse Monoclonal Antibody(5G10)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3

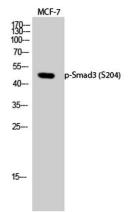


RefSeq, Apr 2009],

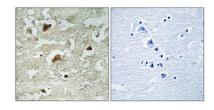




Western Blot analysis of various cells using Phospho-Smad3 (S204) Polyclonal Antibody diluted at 1:500



Western Blot analysis of MCF-7 cells using Phospho-Smad3 (S204) Polyclonal Antibody diluted at 1:500



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

