

Product datasheet

Anti-Smad2 + Smad3 antibody ab217553

[6 References](#) [4 Images](#)

Overview

Product name	Anti-Smad2 + Smad3 antibody
Description	Rabbit polyclonal to Smad2 + Smad3
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Smad2 + Smad3 aa 30-80 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: Q15796
Positive control	Flow Cyt: HUVEC cells ICC/IF: HeLa cells WB: Mouse and Rat cerebrum, testis and kidney lysates, mouse heart, mouse skin, HUVEC cells, A549 cells, HeLa cells, HT1080 cells, A431 cell lysates
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 1% BSA, 50% Glycerol (glycerin, glycerine) Aqueous buffered solution
Purity	Protein A purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab217553 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/1000.
Flow Cyt		1/50.
ICC/IF		1/100.

Target

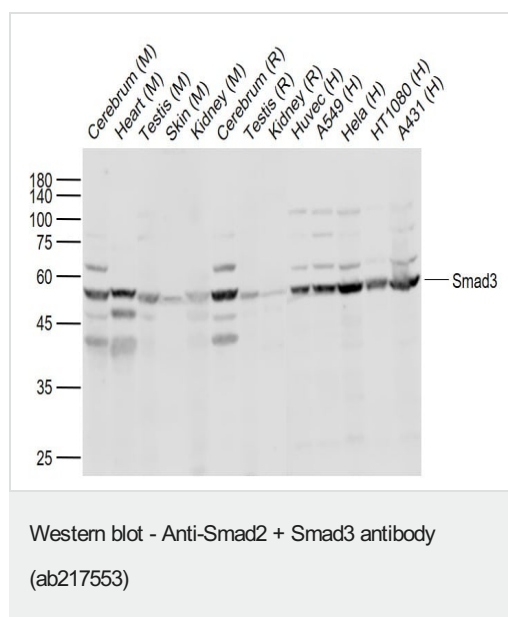
Relevance

SMAD is 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. They mediate the signal of the transforming growth factor (TGF)-beta, and thus regulate multiple cellular processes, such as cell proliferation, apoptosis, and differentiation.

Cellular localization

Cytoplasm. Nucleus. Note: Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4.

Images



All lanes : Anti-Smad2 + Smad3 antibody (ab217553) at 1/1000 dilution

Lane 1 : Mouse cerebrum lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse testis lysate

Lane 4 : Mouse Skin lysate

Lane 5 : Mouse Kidney lysate

Lane 6 : Rat cerebrum lysate

Lane 7 : Rat Testis lysate

Lane 8 : Rat kidney lysate

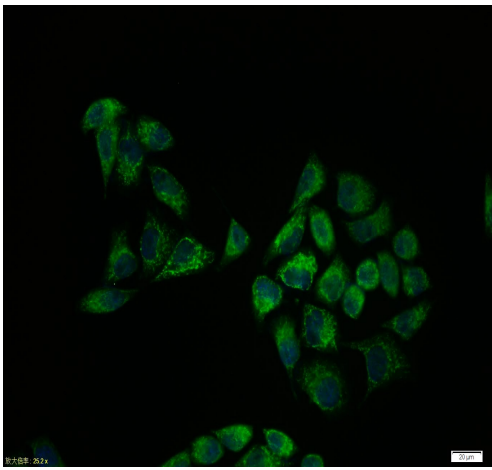
Lane 9 : HUVEC cell lysate

Lane 10 : A459 cell lysate

Lane 11 : HeLa cell lysate

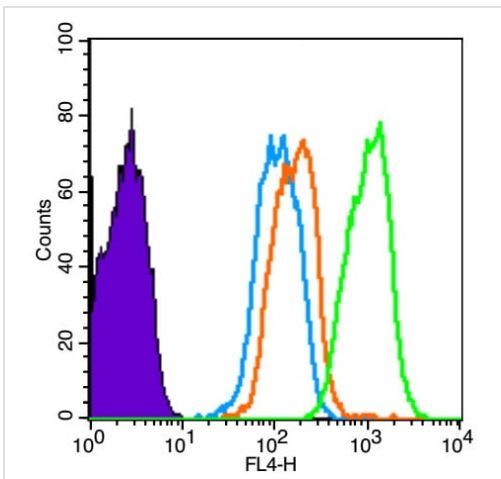
Lane 12 : HT1080 cell lysate

Lane 13 : A431 cell lysate



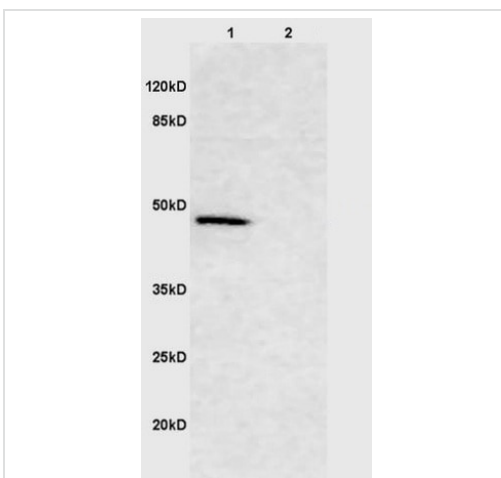
Immunocytochemistry/ Immunofluorescence - Anti-Smad2 + Smad3 antibody (ab217553)

Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Smad3) polyclonal Antibody, Unconjugated (ab217553) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.



Flow Cytometry - Anti-Smad2 + Smad3 antibody (ab217553)

HUVEC cells(black) were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Smad2/3 Polyclonal Antibody(ab217553) at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Western blot - Anti-Smad2 + Smad3 antibody (ab217553)

All lanes : Anti-Smad2 + Smad3 antibody (ab217553) at 1/200 dilution

Lane 1 : mouse brain lysates

Lane 2 : mouse kidney lysates

Secondary

All lanes : HRP-conjugated secondary antibody at 1/3000 dilution

Observed band size: 47 kDa

12% SDS-PAGE

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