Product Name: Phospho-Smad2 (Thr8)/Smad3 (Thr8) Rabbit Monoclonal Antibody
Catalog #: AMRe87735

Summary

Production Name	Phospho-Smad2 (Thr8)/Smad3 (Thr8) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal antibody
Host	Rabbit
Application	WB, ICC/IF, IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Immunogen

Gene Name	Phospho-Smad2 (Thr8)/Smad3 (Thr8) Rabbit Monoclonal Antibody
Alternative Names	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
Gene ID	4087, 4088
SwissProt ID	Q15796, P84022.

Application

Dilution Ratio	WB: 1:1000 ICC/IF: 1:50 IP: 1:20-1:50
Molecular Weight	Calculated MW:52,48 kDa; Observed MW:58,62 kDa

Background

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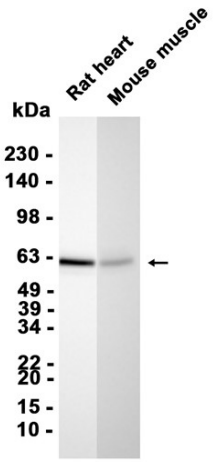
The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012]

Research Area

Image Data



Western blot analysis of extracts from Rat heart, Mouse kidney tissue using AMRe87735 at 1:1000.

Note

For research use only.