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Datasheet for ABIN7320169 SMAD2 Protein (GST tag,His tag)

Image



Overview

| Quantity: | 100 µg |
|-------------------------------|--|
| Target: | SMAD2 |
| Origin: | Mouse |
| Source: | Baculovirus infected Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SMAD2 protein is labelled with GST tag,His tag. |

Product Details

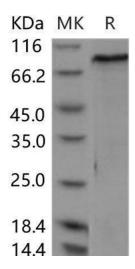
| Purpose: | Recombinant Mouse SMAD2 Protein (His & GST Tag) | |
|------------------|---|--|
| Sequence: | Ser2-Ser467 | |
| Characteristics: | A DNA sequence encoding the mouse SMAD2 (Q62432-Isoform Long) (Ser2-Ser467) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus. | |
| Purity: | > 90 % as determined by SDS-PAGE | |
| Endotoxin Level: | < 1.0 EU per μ g of the protein as determined by the LAL method. | |

Target Details

| Target: | SMAD2 | |
|-------------------|---|--|
| Alternative Name: | SMAD2 (SMAD2 Products) | |
| Background: | Background: SMAD2 is a member of the SMAD family. Members of this family mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr | |
| | protein kinases at the cell surface to the nucleus. SMAD2 mediates the signal of the TGF-beta, | |

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| | and therefore regulates multiple cellular processes, such as cell proliferation, apoptosis, and |
|---------------------|---|
| | differentiation. SMAD2 is recruited to the TGF-beta receptors through its interaction with the |
| | SMAD anchor for receptor activation (SARA) protein. SMAD2 is the downstream signal |
| | transducers of TGF-beta-1 in human dental pulp cells. In response to TGF-beta signal, this |
| | protein is phosphorylated by the TGF-beta receptors. Phosphorylated SMAD2 is able to form a |
| | complex with SMAD4 or SARA. These complexes accumulate in the cell nucleus, where they |
| | are directly participating in the regulation of gene expression. |
| | Synonym: 7120426M23Rik,Madh2,Madr2, mMad2,Smad-2 |
| Molecular Weight: | 80 kDa |
| Pathways: | Cell Division Cycle, Hormone Transport, Chromatin Binding, Protein targeting to Nucleus |
| Application Details | |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 20 mM Tris, 500 mM Nacl, pH 8.0, 10 % glycerol, 3 mM DTT |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. |
| | Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted |
| | samples are stable at < -20°C for 3 months. |
| | |



| Western I | Blotting |
|-----------|----------|
|-----------|----------|

Image 1.

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