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|  | <h1>SMAD2 Rabbit pAb</h1> | E 2 5 0 7 6 9 9 |
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| Swiss-Prot No.: | Q15796 |
| Altername: | SMAD2 |
| Storage/Stability: | Store at -20°C. Avoid freeze / thaw cycles. |
| Immunogen: | A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SMAD2 (NP_001003652.1). |
| Purification: | Affinity purified |
| Reactivity: | Human,Mouse,Rat |
| Other Names: | JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2 |
| Cellular localization: | Cytoplasm, Nucleus |
| Relevance: | Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and 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 SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. |
| Source: | Rabbit |

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| Antibody type: | Polyclonal antibody |
| Isotype: | Rabbit IgG |
| Molecular Weight: | 60kDa |
| Preservative: | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |
| Recommended Dilutions: | WB 1:500 - 1:2000; IHC 1:50 - 1:200; IF 1:50 - 1:200 (Optimal dilutions should be determined by the end user) |