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Smad1/5/9

货号: ABY1303

产品信息

反应	Human, Mouse, Rat
宿主	Rabbit
克隆性	Polyclonal
预测反应	
应用	WB IHC IF/ICC
推荐浓度	**WB:** 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200
理论分子量	52kDa/52kDa/52kDa
实测分子量	
形式	Liquid
保存条件	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.4.
偶联物	Unconjugated
阳性对照	Jurkat,C6
细胞定位	Cytoplasm, Cytoplasm . Nucleus
纯化	亲和纯化

抗原信息

抗原信息	

靶点信息

研究背景	Transcriptional modulator that plays a role in various cellular processes, including embryonic development, cell differentiation, and tissue homeostasis (PubMed:9335504). Upon BMP ligand binding to their receptors at the cell surface, is phosphorylated by activated type I BMP receptors (BMPRIs) and associates with SMAD4 to form a heteromeric complex which translocates into the nucleus acting as transcription factor (PubMed:33667543). In turn, the hetero-trimeric complex recognizes cis-regulatory elements containing Smad Binding Elements (SBEs) to modulate the outcome of the signaling network (PubMed:33667543). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1. Positively regulates BMP4-induced expression of odontogenic development regulator MSX1 following IPO7-mediated nuclear import (By similarity). . Transcriptional regulator that plays a role in various cellular processes including embryonic development, cell differentiation, angiogenesis and tissue homeostasis (PubMed:12064918, PubMed:16516194). Upon BMP ligand binding to their receptors at the cell surface, is phosphorylated by activated type I BMP receptors (BMPRIs) and associates with SMAD4 to form a heteromeric complex which translocates into the nucleus acting as transcription factor (PubMed:9442019). In turn, the hetero-trimeric complex recognizes cis- regulatory elements containing Smad Binding Elements (SBEs) to modulate the outcome of the signaling network (PubMed:33510867). Non- phosphorylated SMAD5 has a cytoplasmic role in energy metabolism regulation by promoting mitochondrial respiration and glycolysis in response to cytoplasmic pH changes (PubMed:28675158). Mechanistically, interacts with hexokinase 1/HK1 and thereby accelerates glycolysis (PubMed:28675158). . Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD9 is a receptor- regulated SMAD (R-SMAD).
基因ID	4086, 4090, 4093
基因名	SMAD1, SMAD5, SMAD9
Swiss	Q15797 (https://www.uniprot.org/uniprotkb/Q15797/entry), Q99717 (https://www.uniprot.org/uniprotkb/Q99717/entry), O15198 (https://www.uniprot.org/uniprotkb/O15198/entry)
别名	BSP-1; BSP1; HsMAD1; JV4-1; JV41; MAD homolog 1; MAD mothers against decapentaplegic homolog 1; Mad related protein 1; Mad-related protein 1; MADH1; MADR1; Mothers against decapentaplegic homolog 1; Mothers against DPP homolog 1; SMA- AND MAD-RELATED PROTEIN 1; SMAD 1; SMAD family member 1; SMAD mothers against DPP homolog 1; Smad1; SMAD1_HUMAN; TGF beta signaling protein 1; Transforming growth factor-beta-signaling protein 1; DKFZp781C1895; DKFZp781O1323; Dwfc; hSmad5; JV5 1; JV5-1; MAD homolog 5; MAD, mothers against decapentaplegic homolog 5; MADH 5; MADH5; Mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5; Mothers against DPP homolog 5; MusMLP; SMA and MAD related protein 5; SMAD 5; SMAD family member 5; SMAD, mothers against DPP homolog 5; Smad5; SMAD5_HUMAN; MAD homolog 9; Madh6; Mothers against decapentaplegic; Mothers against decapentaplegic homolog 9; Mothers against DPP homolog 9; SMAD 9; SMAD family member 9; SMAD, mothers against DPP homolog 9 (Drosophila); SMAD8A; SMAD8B; Smad9; SMAD9_HUMAN;

产品验证

实验步骤

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