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TGF-beta Receptor III (D11G10) Rabbit mAb



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or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q03167	Entrez-Gene Id: 7049	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sens	sitivity TGF	TGF- β Receptor III (D11G10) Rabbit mAb detects endogenous levels of total TGF- β Receptor III protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues in the extracellular domain of TGF- β receptor III protein.					
Background	critic and (RI) kina ligar pho med the	Transforming growth factor- β (TGF- β) proteins belong to the TGF- β superfamily of cytokines that play a critical role in regulating cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis (1-3). TGF- β ligands elicit signaling through three cell surface receptors: type I (RI), type II (RII), and type III (RIII) TGF- β receptors. Type I and type II receptors are serine/threonine kinases that form a heteromeric complex following ligand binding to the type II receptor. In response to ligand binding, the type II receptors form a stable complex with the type I receptors, triggering phosphorylation and activation of the type I receptor (4). The results in the recruitment of receptor-mediated SMADs (SMAD2, SMAD3), which are phosphorylated by the type I kinase in an SSXS domain in the C-terminus. This leads to recruitment of the co-SMAD (SMAD4), and subsequent translocation of this heteromeric SMAD complext to the nucleus, where it regulates transcription of target genes (5-7). The type					

Background References

- 1. Massagué, J. et al. (2000) Cell 103, 295-309.
- 2. de Caestecker, M.P. et al. (2000) J Natl Cancer Inst 92, 1388-402.
- 3. Derynck, R. et al. (2001) Nat Genet 29, 117-29.
- 4. Derynck, R. and Feng, X.H. (1997) Biochim Biophys Acta 1333, F105-50.
- 5. Miyazono, K. et al. (2000) Adv Immunol 75, 115-57.
- 6. Massagué, J. (2000) Nat Rev Mol Cell Biol 1, 169-78.
- 7. Derynck, R. et al. (1998) Cell 95, 737-40.
- 8. López-Casillas, F. et al. (1991) Cell 67, 785-95.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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III receptor, also known as betaglycan, is a transmembrane proteoglycan with a large extracellular domain that binds TGF-β with high affinity but lacks a cytoplasmic signaling domain. Expression of the type III receptor can regulate TGF-β signaling through presentation of the ligand to the signaling complex (8).

information.

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TGF-beta Receptor III (D11G10) Rabbit mAb (#5544) Datasheet Without Images Cell Signaling Technology

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