anti-TGF β Receptor 2

Cat #: HM1369
Rabbit polyclonal IgG
0.2 μg/μl, store at 4 °C

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BACKGROUND
Three members of the TGF β family, TGF β 1, TGF β2 and TGF β 3, have been identified in mammals. TGF βs mediate their activity by high affinity binding to the type II receptor 70 kDa transmembrane protein with a cytoplasmic serine-threonine kinase domain. For signaling growth inhibition and early gene responses the type II receptor requires both its kinase activity and association with members of type 1 receptors called activin receptor-like kinase (ALK) 1 to 6. Of these, only ALK5 has been shown to represent a functional TGF beta type 1 receptor. TGF β Receptor 2 is involved in regulating cell proliferation and differentiation and extracellular matrix production and acts as a signal transducer. It phosphorylates TGFBR1 upon binding to its ligand, TGF-beta. TGFBR1 in turn phosphorylates the cytoplasmic effectors of the pathway, known as SMADs.

SPECIFICITY
This antibody reacts TGF β RII p70 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections); non cross-reactive with TGF β RI p55.

Molecular Weight of TGF β RII: 70 kDa.

IMMUNOGEN
A peptide at an internal domain of the human TGF β RII.

STORAGE
This antibody is stable for 12 months when stored at 2-8°C.

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