

Recombinant Transforming Growth Factor Beta Receptor 1 (TGFB β R1) Antibody

Mouse Monoclonal Antibody [Clone rG3E6]

Catalog No	Format	Size
7046-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7046-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7046-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

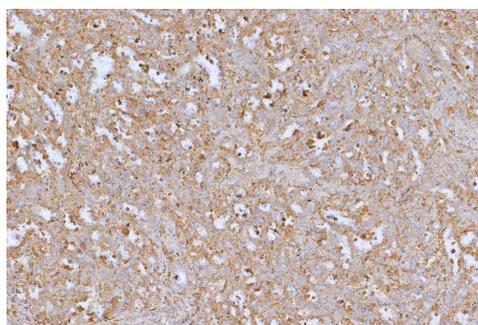
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

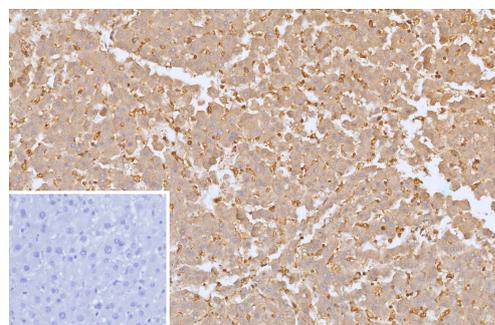
Clone	rG3E6
Gene Name	TGFB β R1
Immunogen	Prokaryotic recombinant protein corresponding to the external domain of the human transforming growth factor beta receptor type 1 molecule
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	53kDa
Cellular Localization	Cell membrane, Cell surface, Cytoplasm
Species Reactivity	Human
Positive Control	Human placenta, spleen or liver. HEK293T cells.

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant Transforming Growth Factor Beta Receptor 1 (TGFB β R1) Antibody



Formalin-fixed, paraffin-embedded human spleen stained with Transforming Growth Factor Beta Receptor 1 Recombinant Mouse Monoclonal Antibody (r8A11). Inset: PBS instead of primary antibody; secondary only negative control. HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human liver stained with Transforming Growth Factor Beta Receptor 1 Recombinant Mouse Monoclonal Antibody (r8A11). Inset: PBS instead of primary antibody; secondary only negative control. HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

Transforming growth factor beta (TGFB) inhibits cell proliferation and stimulates cell differentiation. This is achieved through a receptor complex of types I and II TGFB receptors. The type II receptor is a transmembrane serine/threonine kinase which is able to bind TGFB and transactivate the type I receptor. TGFB receptors are found in all myometrial tissues and, in the kidney, they are found exclusively in renal tubular cells. In normal gastric mucosa, type I and II receptors are demonstrated in fundic glands, but not on surface mucous cells and in normal small bowel and colon, TGFB receptors are expressed in the epithelial cells of the upper crypts.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Angiogenesis, Apoptosis, Breast Cancer, Cancer, Colorectal Cancer, Cytokine Signaling
