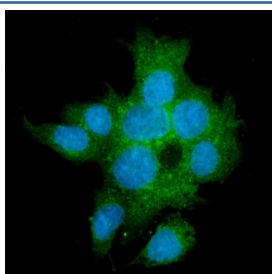


TGF beta Receptor II Antibody / TGFBR2 [clone 2F11] (RQ6531)

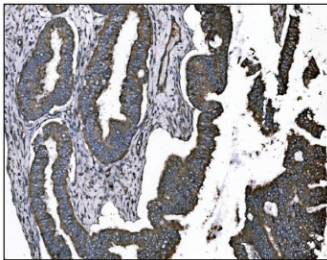
Catalog No.	Formulation	Size
RQ6531	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

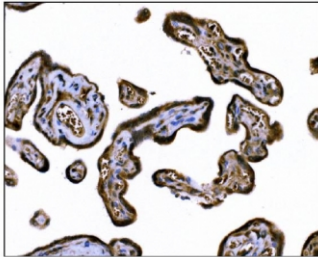
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	2F11
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P37173
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This TGF beta Receptor II antibody is available for research use only.



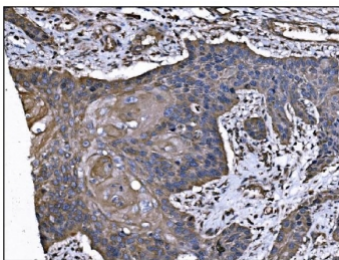
Immunofluorescent staining of FFPE human HepG2 cells with TGF beta Receptor II antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



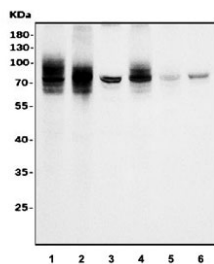
IHC staining of FFPE human cervical intraepithelial neoplasia tissue with TGF beta Receptor II antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



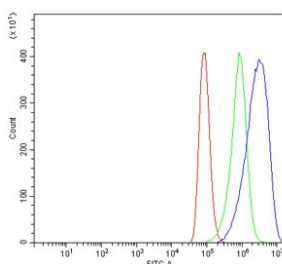
IHC staining of FFPE human placental tissue with TGF beta Receptor II antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human esophageal squamous carcinoma tissue with TGF beta Receptor II antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HepG2, 2) A549, 3) K562, 4) Caco-2, 5) HeLa and 6) T-47D cell lysate with TGF beta Receptor II antibody. Expected molecular weight ~65 kDa, routinely observed at 65-80 kDa.



Flow cytometry testing of human A549 cells with TGF beta Receptor II antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=TGF beta Receptor II antibody.

Description

TGFBR2 (transforming growth factor, beta receptor II (70/80kDa)), also known as TGF-beta receptor type-2, TGFR-2, TGF-beta type II receptor, Transforming growth factor-beta receptor type II (TGF-beta receptor type II, TbetaR-II), is a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. A TGFBR2 cDNA encodes a deduced 565-amino acid protein with a calculated molecular mass of approximately 60 kD in length. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan syndrome, Loeys-Deitz aortic aneurysm syndrome, Osler-Weber-Rendu syndrome, and the development of

various types of tumors. Alternatively spliced transcript variants encoding different informs have been characterized.

Application Notes

Optimal dilution of the TGF beta Receptor II antibody should be determined by the researcher.

Immunogen

Amino acids 96-128 (TLETVCHDPKLPYHDFILEDAAASPKCIMKEKKK) were used as the immunogen for the TGF beta Receptor II antibody.

Storage

After reconstitution, the TGF beta Receptor II antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.