

For Research Use Only

# CoraLite® Plus 647 Anti-Human TGFBR2 Rabbit Recombinant Antibody

Catalog Number:CL647-98438



## Basic Information

Catalog Number:

CL647-98438

Concentration:

100tests, 5 ul/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2943

GenBank Accession Number:

NM\_003242.5

GeneID (NCBI):

7048

UNIPROT ID:

P37173-1

Full Name:

transforming growth factor, beta receptor II (70/80kDa)

Calculated MW:

65 kDa

Purification Method:

Protein A purification

CloneNo.:

250238A7

Recommended Dilutions:

FC: 5 ul per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human PBMCs,

## Background Information

TGF beta Receptor II (TGFBR2) is a member of the transforming growth factor- $\beta$  (TGF- $\beta$ ) superfamily, which are critical regulators of cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis (PMID: 10974075). TGFBR2 is a serine/threonine kinase and the primary ligand-binding receptor. After binding of the ligand TGF- $\beta$  1, TGFBR2 forms a heterodimer complex with TGFBR1, causing conformational changes and signal propagation via canonical (SMAD-dependent) and non-canonical (SMAD-independent) routes. Upon translocation into the nucleus, activated SMAD complexes can interact with various transcription factors to control target gene expression (PMID: 31454892).

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

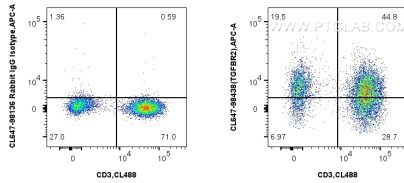
T: 4006900926

E: Proteintech-CN@ptglab.com

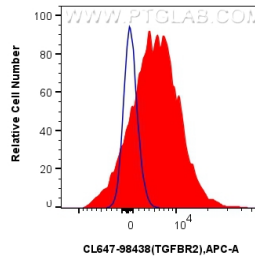
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with CoraLite® Plus 488 Anti-Human CD3, and 5 ul CoraLite® Plus 647 Anti-Human TGFBR2 Rabbit RecAb (CL647-98438, Clone: 250238A7) or CoraLite® Plus 647 Rabbit IgG Isotype Control Recombinant Antibody (CL647-98136, Clone: 240953C9). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul CoraLite® Plus 647 Anti-Human TGFBR2 Rabbit RecAb (CL647-98438, Clone: 250238A7) (red) or CoraLite® Plus 647 Rabbit IgG Isotype Control Recombinant Antibody (CL647-98136, Clone: 240953C9) (blue). Cells were not fixed. Lymphocytes were gated.