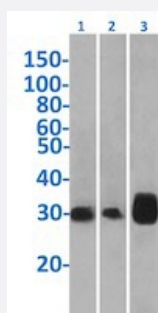


RecomAb™

# TNFRSF9 recombinant monoclonal antibody, clone 4B4-1-1

Catalog # RAB03646      Size 200 ug

## Applications



### Western Blot

Western blot analysis of Lane 1: human thymus, Lane 2: lymph node and Lane 3: tonsil lysates with TNFRSF9 recombinant monoclonal antibody, clone 4B4-1-1 (Cat # RAB03046).

### Immunofluorescence

Immunofluorescent staining of Jurkat cells with TNFRSF9 recombinant monoclonal antibody, clone 4B4-1-1 (Cat # RAB03046).

Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells on Shi-fix™ coverslips stained with the chimeric r version of RAB03046 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was an unknown specificity antibody (3.0) followed by staining with Alexa Fluor® 488 secondary antibody.

- (A) RAB03046
- (B) DAPI
- (C) Merged channels
- (D) Isotype control

## Specification

### Product Description

Rabbit recombinant monoclonal antibody raised against human TNFRSF9.

### Antibody Species

Rabbit

<b>Immunogen</b>	Original antibody is raised against a fusion protein of human TNFRSF9 antigen and glutathione s transferase (GST).
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Conjugation</b>	Unconjugated
<b>Concentration</b>	batch dependent
<b>Isotype</b>	IgG kappa
<b>Recommend Usage</b>	Blocking ELISA Flow Cytometry Immunofluorescence Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS with 0.02% Proclin 300
<b>Storage Instruction</b>	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

Western blot analysis of Lane 1: human thymus, Lane 2: lymph node and Lane 3: tonsil lysates with TNFRSF9 recombinant monoclonal antibody, clone 4B4-1-1 (Cat # RAB03046).

- Immunohistochemistry

- Immunofluorescence

Immunofluorescent staining of Jurkat cells with TNFRSF9 recombinant monoclonal antibody, clone 4B4-1-1 (Cat # RAB03046). Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells on Shi-fix™ coverslips stained with the chimeric r version of RAB03046 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was an unknown specificity antibody (3.0) followed by staining with Alexa Fluor® 488 secondary antibody.

- (A) RAB03046
- (B) DAPI
- (C) Merged channels
- (D) Isotype control

- Enzyme-linked Immunoabsorbent Assay

- Blocking
- Flow Cytometry

## Gene Info — TNFRSF9

Entrez GeneID [3604](#)

Gene Name TNFRSF9

Gene Alias 4-1BB, CD137, CDw137, ILA, MGC2172

Gene Description tumor necrosis factor receptor superfamily, member 9

Omim ID [602250](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB. [provided by RefSeq]

**Other Designations** 4-1BB ligand receptor|CD137 antigen|OTTHUMP00000001360|OTTHUMP00000044294|T cell antigen ILA|homolog of mouse 4-1BB|induced by lymphocyte activation (ILA)|interleukin-activated receptor, homolog of mouse Ly63|receptor protein 4-1BB

## Pathway

- [Cytokine-cytokine receptor interaction](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)