10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# IL12_2 Antibody (C-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP10687b**

## Specification

### IL12_2 Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, FC,E** |
| Primary Accession | Q99665 |
| Other Accession | NP_001550.1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **97135** |
| Antigen Region | **756-783** |

### IL12_2 Antibody (C-term) - Additional Information

**Gene ID** 3595

**Other Names**
Interleukin-12 receptor subunit beta-2, IL-12 receptor subunit beta-2, IL-12R subunit beta-2, IL-12R-beta-2, IL-12RB2, IL12RB2

**Target/Specificity**
This IL12_2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 756-783 amino acids from the C-terminal region of human IL12_2.

**Dilution**
WB~~1:2000
IHC-P~~1:10~50
FC~~1:25
E~~Use at an assay dependent concentration.

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
IL12_2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### IL12_2 Antibody (C-term) - Protein Information

**Name** IL12RB2

**Function** Receptor for interleukin-12. This subunit is the signaling component coupling to the JAK2/STAT4 pathway. Promotes the proliferation of T-cells as well as NK cells. Induces the promotion of T-cells towards the Th1 phenotype by strongly enhancing IFN-gamma production.

**Cellular Location**
Membrane; Single-pass type I membrane protein.

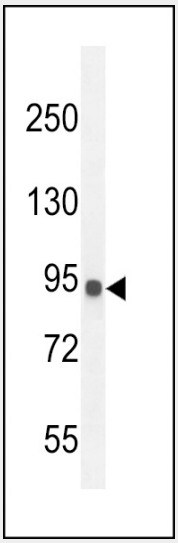
**Tissue Location**
Isoform 2 is expressed at similar levels in both naive and activated T-cells.

## IL12_2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

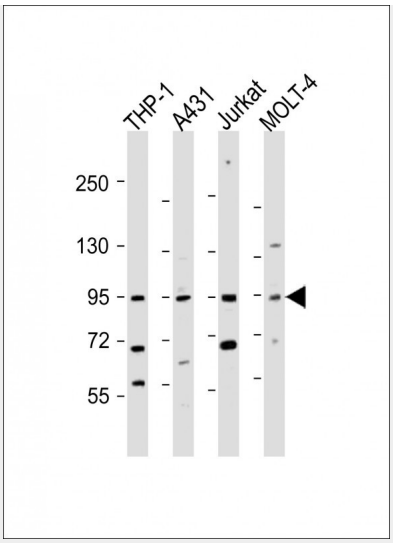
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## IL12_2 Antibody (C-term) - Images

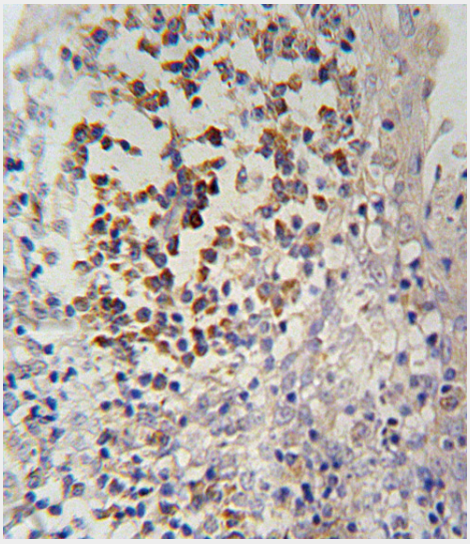



IL12RB2 Antibody (C-term) (Cat. #AP10687b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the IL12RB2 antibody detected the IL12Cat. #2 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

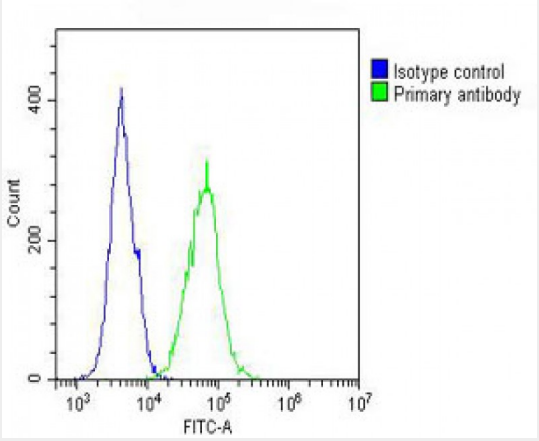



All lanes : Anti-IL12RB2 Antibody (C-term) at 1:2000 dilution Lane 1: THP-1 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



IL12RB2 Antibody (C-term) (Cat. #AP10687b) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsils tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IL12RB2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999




Overlay histogram showing A431 cells stained with AP10687b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP10687b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

## IL12_2 Antibody (C-term) - Background

The protein encoded by this gene is a type I transmembrane protein identified as a subunit of the interleukin 12 receptor complex. The coexpression of this and IL12RB1 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The expression of this gene is up-regulated by interferon gamma in Th1 cells, and plays a role in Th1 cell differentiation. The up-regulation of this gene is found to be associated with a number of infectious diseases, such as Crohn's disease and leprosy, which is thought to contribute to the inflammatory response and host defense.

## IL12_2 Antibody (C-term) - References

Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Liu, X., et al. Nat. Genet. 42(8):658-660(2010)
Mizuki, N., et al. Nat. Genet. 42(8):703-706(2010)
Remmers, E.F., et al. Nat. Genet. 42(8):698-702(2010)