

**Anti-CD85k Antibody**  
**Catalog # AP54076****Specification**

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**Anti-CD85k Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">Q8NHJ6</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49356

**Anti-CD85k Antibody - Additional Information****Gene ID** 11006**Other Names**

ILT3; LIR5; Leukocyte immunoglobulin-like receptor subfamily B member 4; CD85 antigen-like family member K; Immunoglobulin-like transcript 3; ILT-3; Leukocyte immunoglobulin-like receptor 5; LIR-5; Monocyte inhibitory receptor HM18; CD85k

**Target/Specificity**

Recognizes endogenous levels of CD85k protein.

**Dilution**

WB~~1/500 - 1/1000

IF~~1/50 - 1/200

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-CD85k Antibody - Protein Information****Name** LILRB4**Synonyms** ILT3, LIR5**Function**

Inhibitory receptor involved in the down-regulation of the immune response and the development of immune tolerance (PubMed:<a href="http://www.uniprot.org/citations/11875462" target="\_blank">11875462</a>). Receptor for FN1 (PubMed:<a href="http://www.uniprot.org/citations/34089617" target="\_blank">34089617</a>). Receptor for apolipoprotein APOE (PubMed:<a href="http://www.uniprot.org/citations/30333625" target="\_blank">30333625</a>). Receptor for ALCAM/CD166 (PubMed:<a

[29263213](http://www.uniprot.org/citations/29263213)). Inhibits receptor-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:[9151699](http://www.uniprot.org/citations/9151699)). Inhibits FCGR1A/CD64-mediated monocyte activation by inducing phosphatase-mediated down-regulation of the phosphorylation of multiple proteins including LCK, SYK, LAT and ERK, leading to a reduction in TNF production (PubMed:[19833736](http://www.uniprot.org/citations/19833736)). This inhibition of monocyte activation occurs at least in part via binding to FN1 (PubMed:[34089617](http://www.uniprot.org/citations/34089617)). Inhibits T cell proliferation, inducing anergy, suppressing the differentiation of IFNG-producing CD8+ cytotoxic T cells and enhancing the generation of CD8+ T suppressor cells (PubMed:[16493035](http://www.uniprot.org/citations/16493035), PubMed:[19833736](http://www.uniprot.org/citations/19833736), PubMed:[19833736](http://www.uniprot.org/citations/19833736), PubMed:[29263213](http://www.uniprot.org/citations/29263213)). Induces up-regulation of CD86 on dendritic cells (PubMed:[19860908](http://www.uniprot.org/citations/19860908)). Interferes with TNFRSF5-signaling and NF-kappa-B up-regulation (PubMed:[11875462](http://www.uniprot.org/citations/11875462)).

### Cellular Location

Cell membrane; Single-pass type I membrane protein. Note=Ligand binding leads to internalization and translocation to an antigen-processing compartment

### Tissue Location

Detected on monocytes, macrophages, dendritic cells, natural killer cells and B-cells (at protein level). Expressed in the lung.

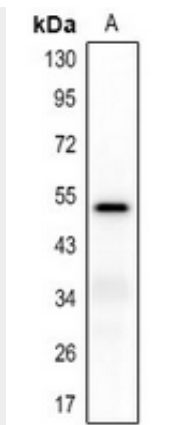
## Anti-CD85k Antibody - Protocols

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

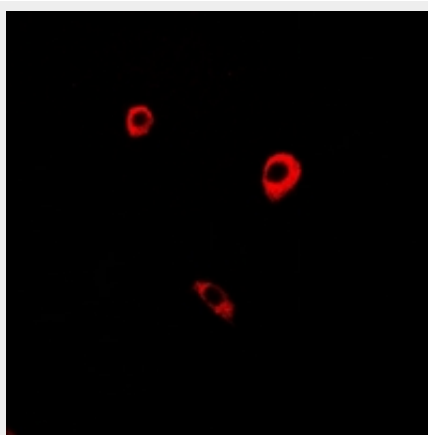
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-CD85k Antibody - Images





Western blot analysis of CD85k expression in rat lung (A) whole cell lysates.



Immunofluorescent analysis of CD85k staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-CD85k Antibody - Background**

Rabbit polyclonal antibody to CD85k