

**Anti-CD316 Antibody**  
**Rabbit polyclonal antibody to CD316**  
**Catalog # AP60796**

**Specification**

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**Anti-CD316 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O969P0</a>
Other Accession	<a href="#">O8R366</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>65034</b>

**Anti-CD316 Antibody - Additional Information**

**Gene ID** 93185

**Other Names**

CD81P3; EW12; KCT4; Immunoglobulin superfamily member 8; IgSF8; CD81 partner 3; Glu-Trp-Ile  
EWI motif-containing protein 2; EWI-2; Keratinocytes-associated transmembrane protein 4; KCT-4;  
LIR-D1; Prostaglandin regulatory-like protein; PGRL; CD316

**Target/Specificity**

Recognizes endogenous levels of CD316 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**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-CD316 Antibody - Protein Information**

**Name** IGSF8

**Synonyms** CD81P3, EW12, KCT4

**Function**

Member of the immunoglobulin superfamily (IgSF) that links tetraspanin-enriched microdomains to  
the actin cytoskeleton and plays several important roles in innate and adaptive immunity  
(PubMed: <a href="http://www.uniprot.org/citations/11504738" target="\_blank">11504738</a>,  
PubMed: <a href="http://www.uniprot.org/citations/14662754" target="\_blank">14662754</a>).  
Acts as an inducible receptor of HSPA8 on dendritic cells to enhance the CCL21/SLC-dependent

migration of activated mature dendritic cells while attenuating their antigen- specific stimulatory capacities (PubMed:<a href="http://www.uniprot.org/citations/17785435" target="\_blank">17785435</a>). In complex with alpha-actinins ACTN1 and ACTN4, regulates actin dynamics in the immune synapse and subsequent T-cell activation (PubMed:<a href="http://www.uniprot.org/citations/22689882" target="\_blank">22689882</a>). Inhibits the entry of several viruses such as hepatitis C Virus (HCV) or HIV-1. Mechanistically, promotes a change in CD81 organization at the plasma membrane by significantly restricting its diffusion which in turn influences CD81 interaction with Claudin-1/CLDN1, preventing CLDN1 from acting as a co-receptor required for HCV entry (PubMed:<a href="http://www.uniprot.org/citations/23351194" target="\_blank">23351194</a>). Accumulates at the presynaptic terminal, the producer cell side of the virological synapse, to prevent HIV-1 Env-mediated cell-cell fusion (PubMed:<a href="http://www.uniprot.org/citations/31757023" target="\_blank">31757023</a>). Highly expressed on malignant cells with antigen presentation defects, interacts with NK receptor KIR3DL2 to suppress NK-cell cytotoxicity (PubMed:<a href="http://www.uniprot.org/citations/38657602" target="\_blank">38657602</a>). May participate in the regulation of neurite outgrowth and maintenance of the neural network in the adult brain.

#### Cellular Location

Cell membrane; Single-pass membrane protein. Note=Colocalizes with CD81 at the immune synapse.

#### Tissue Location

Expressed in brain, kidney, testis, liver and placenta with moderate expression in all other tissues. Detected on a majority of B-cells, T-cells, and natural killer cells (PubMed:12708969). Expressed on dendritic cells (PubMed:17785435)

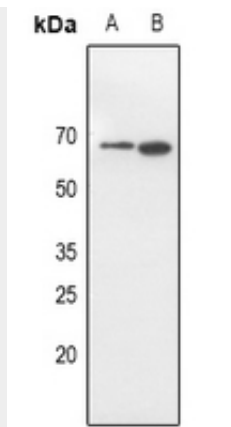
### Anti-CD316 Antibody - Protocols

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-CD316 Antibody - Images





Western blot analysis of CD316 expression in HEK293T (A), HeLa (B) whole cell lysates.

#### **Anti-CD316 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD316. The exact sequence is proprietary.