

[20037584](http://www.uniprot.org/citations/20037584), PubMed:<[20711192](http://www.uniprot.org/citations/20711192)>, PubMed:<[23880187](http://www.uniprot.org/citations/23880187)>, PubMed:<[27022195](http://www.uniprot.org/citations/27022195)>, PubMed:<[29038465](http://www.uniprot.org/citations/29038465)>, PubMed:<[17803912](http://www.uniprot.org/citations/17803912)>). At the plasma membrane, cooperates with LY96 to mediate the innate immune response to bacterial lipopolysaccharide (LPS) (PubMed:<[27022195](http://www.uniprot.org/citations/27022195)>). Also involved in LPS-independent inflammatory responses triggered by free fatty acids, such as palmitate, and Ni(2+) (PubMed:<[20711192](http://www.uniprot.org/citations/20711192)>). Mechanistically, acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:<[10835634](http://www.uniprot.org/citations/10835634)>, PubMed:<[21393102](http://www.uniprot.org/citations/21393102)>, PubMed:<[27022195](http://www.uniprot.org/citations/27022195)>, PubMed:<[36945827](http://www.uniprot.org/citations/36945827)>, PubMed:<[9237759](http://www.uniprot.org/citations/9237759)>). Alternatively, CD14- mediated TLR4 internalization via endocytosis is associated with the initiation of a MYD88-independent signaling via the TICAM1-TBK1-IRF3 axis leading to type I interferon production (PubMed:<[14517278](http://www.uniprot.org/citations/14517278)>). In addition to the secretion of proinflammatory cytokines, initiates the activation of NLRP3 inflammasome and formation of a positive feedback loop between autophagy and NF-kappa-B signaling cascade (PubMed:<[32894580](http://www.uniprot.org/citations/32894580)>). In complex with TLR6, promotes inflammation in monocytes/macrophages by associating with TLR6 and the receptor CD86 (PubMed:<[23880187](http://www.uniprot.org/citations/23880187)>). Upon ligand binding, such as oxLDL or amyloid-beta 42, the TLR4:TLR6 complex is internalized and triggers inflammatory response, leading to NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway (PubMed:<[23880187](http://www.uniprot.org/citations/23880187)>). In myeloid dendritic cells, vesicular stomatitis virus glycoprotein G but not LPS promotes the activation of IRF7, leading to type I IFN production in a CD14- dependent manner (PubMed:<[15265881](http://www.uniprot.org/citations/15265881)>, PubMed:<[23880187](http://www.uniprot.org/citations/23880187)>). Required for the migration-promoting effects of ZG16B/PAUF on pancreatic cancer cells.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Early endosome. Cell projection, ruffle {ECO:0000250|UniProtKB:Q9QUK6}. Note=Upon complex formation with CD36 and TLR6, internalized through dynamin-dependent endocytosis (PubMed:20037584). Colocalizes with RFTN1 at cell membrane and then together with RFTN1 moves to endosomes, upon lipopolysaccharide stimulation. Co-localizes with ZG16B/PAUF at the cell membrane of pancreatic cancer cells (PubMed:36232715)

Tissue Location

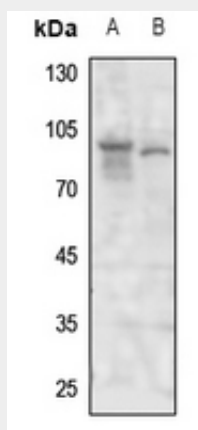
Highly expressed in placenta, spleen and peripheral blood leukocytes (PubMed:9237759, PubMed:9435236). Detected in monocytes, macrophages, dendritic cells and several types of T-cells (PubMed:27022195, PubMed:9237759). Expressed in pancreatic cancer cells but not in normal pancreatic cells (at protein level) (PubMed:36232715).

Anti-CD284 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-CD284 Antibody - Images



Western blot analysis of CD284 expression in HEK293T (A), HeLa (B) whole cell lysates.

Anti-CD284 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD284. The exact sequence is proprietary.