

CoraLite® Plus 488-conjugated CD147 Monoclonal antibody

Catalog Number: **CL488-66443**

Basic Information

Catalog Number: CL488-66443	GenBank Accession Number: BC009040	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 682	CloneNo.: 1G12B5
Source: Mouse	UNIPROT ID: P35613	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Full Name: basigin (Ok blood group)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG2619	Calculated MW: 385 aa, 42 kDa	
	Observed MW: 45-50 kDa	

Applications

Tested Applications: FC (Intra), IF/ICC	Positive Controls: IF : human tonsillitis tissue,
Species Specificity: human, pig	

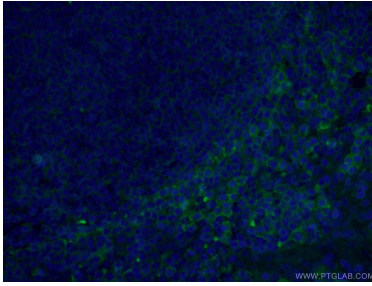
Background Information

CD147, also known as Basigin or extracellular matrix metalloproteinase inducer (EMMPRIN), is a transmembrane glycoprotein that belongs to the immunoglobulin superfamily (PMID: 7812975). The molecule is composed of an intracellular portion and an extracellular portion and a single transmembrane region. CD147 is expressed on a variety of cell types (e.g., hematopoietic, epithelial, and endothelial cells) and at varying levels (PMID: 32968061). Increased expression of CD147 occurs in many tumors. CD147 is a pleiotropic molecule that plays an important role in fetal, neuronal, lymphocyte and extracellular matrix development (PMID: 17945211). CD147 has been identified as a receptor essential for erythrocyte invasion by Plasmodium falciparum (PMID: 22080952). It has been reported that spike protein of SARS-CoV-2 binds to CD147 on host cells, thereby mediating the viral invasion (Wang, Ke, et al, BioRxiv, 2020). The CD147 gene, designated BSG for basigin, is located on chromosome 19p13.3. Four transcript variants encoding different isoforms have been found (PMID: 21536654). CD147 migrates on SDS-PAGE usually between 35 and 65 kDa, depending on the degree of glycosylation (PMID: 17945211).

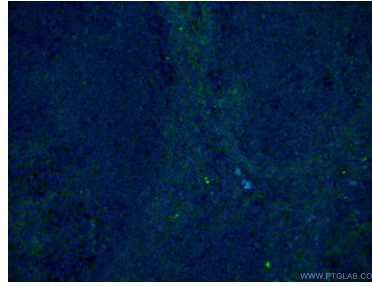
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

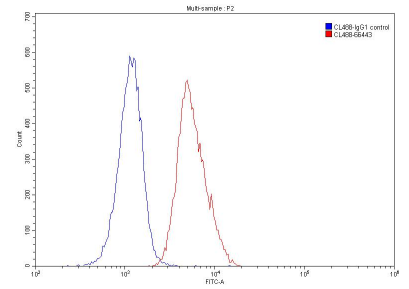
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CL488-66443 (CD147 antibody) at dilution of 1:50.



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1X10⁶ Jurkat cells were stained with 0.20ug CD147 antibody (CL488-66443, red) and control antibody (blue). Fixed with 90% MeOH.