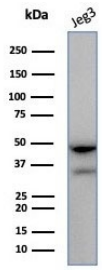
HLA-G Antibody [clone HLAG/7750] (V5154)

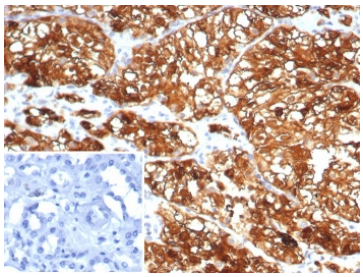
Catalog No.	Formulation	Size
V5154-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5154-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5154SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

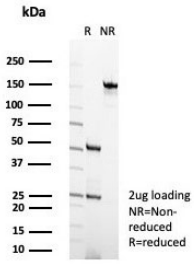
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	HLAG/7750
Purity	Protein A/G affinity
UniProt	P17693
Localization	Cell surface
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This HLA-G antibody is available for research use only.



Western blot testing of human JEG3 cell lysate with HLA-G antibody (clone HLAG/7750). Expected molecular weight: 35-50 kDa depending on level of glycosylation.



IHC staining of FFPE human kidney tissue with HLA-G antibody (clone HLAG/7750). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free HLA-G antibody (clone HLAG/7750) as confirmation of integrity and purity.

Description

Major histocompatibility complex (MHC), human leukocyte antigen (HLA) molecules are cell-surface receptors that bind foreign peptides and present them to T lymphocytes. MHC class I molecules consist of two polypeptide chains, an a or heavy chain, and a non-covalently associated protein, beta2-microglobulin. Cytotoxic T lymphocytes bind antigenic peptides presented by MHC class I molecules. Antigens that bind to MHC class I molecules are typically 8-10 residues in length and are stabilized in a peptide binding groove. MHC class II molecules are encoded by polymorphic MHC genes and consist of a noncovalent complex of an a and b chain. Helper T lymphocytes bind antigenic peptides presented by MHC class II molecules. MHC class II molecules bind 13-18 amino acid antigenic peptides. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM and -DO molecules regulate binding of exogenous peptides to class II molecules (HLA-DR) by sustaining a conformation that favors peptide exchange. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of T lymphocytes.

For a monoclonal reagent targeting this non-classical MHC class I molecule, see our HLA-G Antibody HLAG/6686 / MHC Class I Antigen G page.

Application Notes

Optimal dilution of the HLA-G antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the HLA-G antibody.

Storage

Aliquot the HLA-G antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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