MHC class I Rabbit mAb

Catalog No: #49361

Package Size: #49361-1 50ul #49361-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

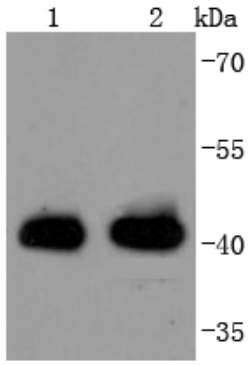
Description

Product Name	MHC class I Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF10-38
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	A 28 antibody A 9 antibody Antigen presenting molecule antibody Aw 24 antibody Aw 68 antibody CLASS I HISTOCOMPATIBILITY ANTIGEN antibody H2 K1 antibody H2K antibody HLA A antibody HLA class I histocompatibility antigen A 1 alpha chain antibody HLA class I histocompatibility antigen A 11 alpha chain antibody HLA class I histocompatibility antigen A 2 alpha chain antibody HLA class I histocompatibility antigen A 24 alpha chain antibody HLA class I histocompatibility antigen A 3 alpha chain antibody HLA class I histocompatibility antigen A 30 alpha chain antibody HLA class I histocompatibility antigen A 32 alpha chain antibody HLA class I histocompatibility antigen A 68 alpha chain antibody HLAA antibody Leukocyte antigen class I A antibody Major histocompatibility complex class I A antibody MHC class I antigen A 1 antibody MHC class I antigen A*11 antibody MHC class I antigen A*2 antibody MHC class I antigen A*24 antibody MHC class I antigen A*3 antibody MHC class I antigen A*30 antibody MHC class I antigen A*32 antibody MHC class I antigen A*68 antibody MHC class I antigen HLA A heavy chain antibody MHC class I heavy chain H2 K antibody
Accession No.	Swiss-Prot:P30443Gene ID:3105
Uniprot	P04439
GeneID	3105;
Calculated MW	41 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

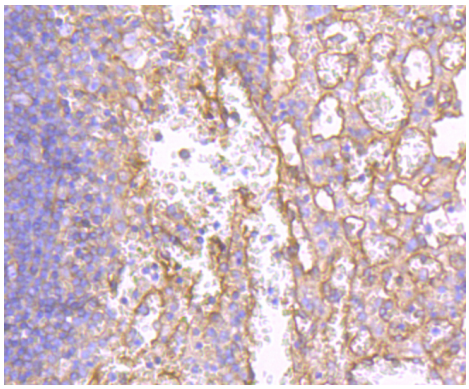
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

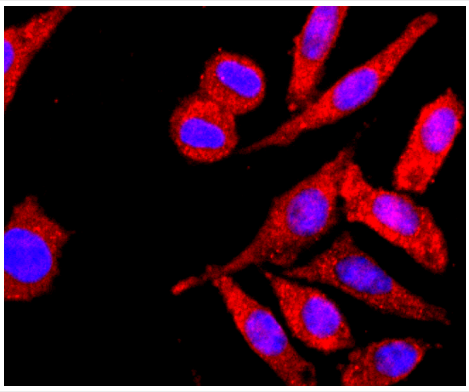
Images



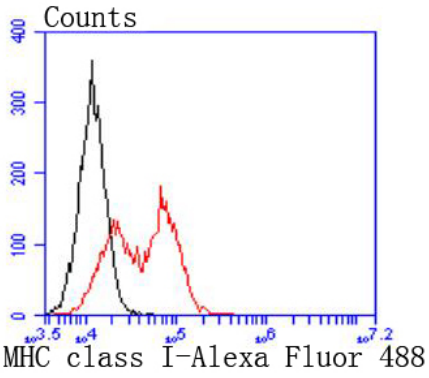
Western blot analysis of MHC class I on different lysates using anti-MHC class I antibody at 1/1,000 dilution. Positive control:
Lane 1: Raji
Lane 2: THP-1



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-MHC class I antibody. Counter stained with hematoxylin.



ICC staining MHC class I in SH-SY-5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of THP-1 cells with MHC class I antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Major histocompatibility complex (MHC) molecules, also designated 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 β-2-Microglobulin, a non-covalently associated protein. 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 non-covalent 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.

References

Note: This product is for in vitro research use only