HLA-A monoclonal antibody

Catalog: MB66702 Host: Rabbit Reactivity: Human

BackGround:

The human leukocyte antigen (HLA) system is a gene complex encoding the major histocompatibility complex (MHC) proteins in humans. These cell surface proteins are responsible for the regulation of antigen-specific immunity in humans. HLA genes are highly polymorphic, allowing them to fine-tune the adaptive immune response. HLAs corresponding to MHC class I (HLA-A, B, and C) present small peptide antigens from inside the cell, approximately 8 to 10 amino acids in length, to CD8+ T lymphocytes in order to activate a cytotoxic T cell response. HLAs corresponding to MHC class II (HLA-DP, DM, DO, DQ, and DR) present antigens from outside of the cell, approximately 15 to 24 residues in length, to CD4+ T helper cells, which in turn secrete cytokines and stimulate B cells to produce antibodies to that specific antigen. HLAs corresponding to MHC class III encode components of the complement system.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 40 kDa

Swiss-Prot:

P04439

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100)

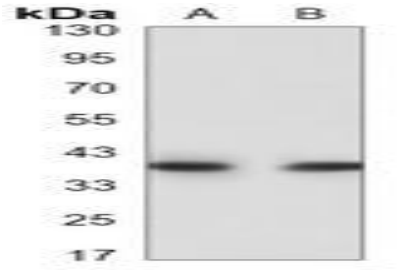
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

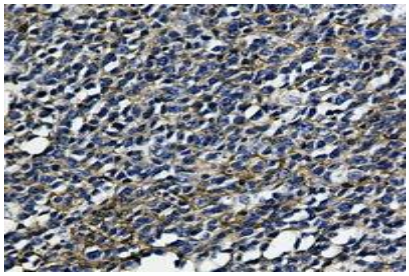
Specificity:

Recognizes endogenous levels of HLA-A protein.

DATA:



Western blot analysis of HLA-A expression in Hela (A), A549 (B) whole cell lysates.



Immunohistochemical analysis of HLA-A staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.134). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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