

HLA-F (201A2J): sc-517641

BACKGROUND

Major histocompatibility complex (MHC) molecules form an integral part of the immune response system. They are cell-surface receptors that bind peptides and present them to T lymphocytes. Human leukocyte antigens (HLAs) are polymorphic members of the MHC family that are specifically involved in the presentation of antigens to the T cell receptor. There are two classes of HLA antigens: class I and class II. Class I molecules are expressed in nearly all cells and play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of T lymphocytes. HLA-F (major histocompatibility complex, class I, F), also known as CDA12, HLA-5.4 or HLA-CDA12, is a 346 amino acid single-pass type I membrane protein that belongs to the MHC class I family.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HLA-F (human) mapping to 6p22.1.

SOURCE

HLA-F (201A2J) is a mouse monoclonal antibody raised against recombinant HLA-F of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HLA-F (201A2J) is recommended for detection of HLA-F of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for HLA-F siRNA (h): sc-105528, HLA-F shRNA Plasmid (h): sc-105528-SH and HLA-F shRNA (h) Lentiviral Particles: sc-105528-V.

Molecular Weight of HLA-F: 39 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.