

Datasheet for ABIN2749085

anti-MICA antibody

3 Images

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Overview

| | |
|--------------|--|
| Quantity: | 0.1 mg |
| Target: | MICA |
| Reactivity: | Human, Cow, Cat, Non-Human Primate |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This MICA antibody is un-conjugated |
| Application: | ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Cytometry by Time of Flight (CyTOF) |

Product Details

| | |
|-----------------------------|--|
| Immunogen: | Membrane of human tonsil cells |
| Clone: | W6-32 |
| Isotype: | IgG2a |
| Specificity: | The antibody W6/32 recognises an extracellular epitope of MHC Class I molecules (MHC Class Ia) that are expressed on the surface of all human nucleated cell types. The antibody W6/32 is a valuable reagent for analysing variations in HLA class I expression in different disease states e.g. liver disease, muscular dystrophy, inflammatory myopathy and other neuromuscular disorders. This antibody W6/32 is also suitable as a positive control for HLA tissue typing and crossmatching. |
| No Cross-Reactivity: | Rabbit |
| Cross-Reactivity (Details): | Human, Non-Human Primates, Bovine, Feline (Cat) |

Product Details

Purification: Purified by protein-A affinity chromatography.

Purity: > 95 % (by SDS-PAGE)

Target Details

Target: MICA

Alternative Name: HLA-Class I ([MICA Products](#))

Background: HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta2 microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumour defence. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules.

Pathways: [Activation of Innate immune Response](#), [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-12 µg/mL

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Le Discorde, Moreau, Sabatier, Legeais, Carosella: "Expression of HLA-G in human cornea, an immune-privileged tissue." in: **Human immunology**, Vol. 64, Issue 11, pp. 1039-44, (2003) ([PubMed](#)).

Tran, Ivanyi, Hilgert, Brdicka, Pla, Breur, Flieger, Ivasková, Horejsí: "The epitope recognized by pan-HLA class I-reactive monoclonal antibody W6/32 and its relationship to unusual stability of the HLA-B27/beta2-microglobulin complex." in: **Immunogenetics**, Vol. 53, Issue 6, pp. 440-6, (2001) ([PubMed](#)).

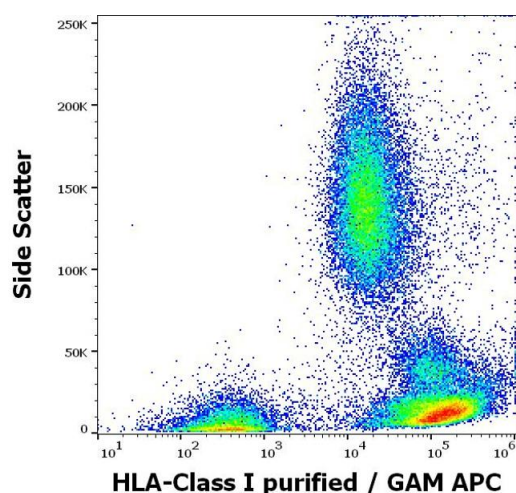
Ladasky, Shum, Canavez, Seuánez, Parham: "Residue 3 of beta2-microglobulin affects binding of class I MHC molecules by the W6/32 antibody." in: **Immunogenetics**, Vol. 49, Issue 4, pp. 312-20, (1999) ([PubMed](#)).

Shields, Ribaldo: "Mapping of the monoclonal antibody W6/32: sensitivity to the amino terminus of beta2-microglobulin." in: **Tissue antigens**, Vol. 51, Issue 5, pp. 567-70, (1998) ([PubMed](#)).

Jacobsen, Aasted, Broe, Petersen: "Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species." in: **Veterinary immunology and immunopathology**, Vol. 39, Issue 4, pp. 461-6, (1994) ([PubMed](#)).

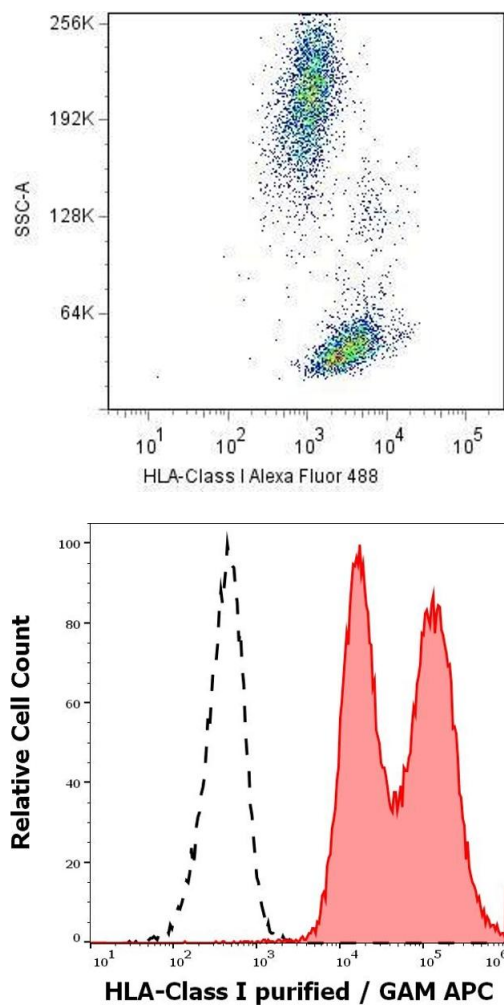
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-HLA Class I (W6/32) purified antibody (concentration in sample 4 µg/mL, GAM APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-HLA-class I(W6/32) Alexa Fluor® 488.

Flow Cytometry

Image 3. Separation of leukocytes stained using anti-HLA Class I (W6/32) purified antibody (concentration in sample 4 µg/mL, GAM APC, red-filled) from leukocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).