Datasheet for ABIN93906
anti-beta-2 Microglobulin antibody (HRP)

Overview

Quantity: 0.1 mg
Target: beta-2 Microglobulin (B2M)
Reactivity: Human
Host: Mouse
Clonality: Monoclonal
Conjugate: This beta-2 Microglobulin antibody is conjugated to HRP
Application: Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Radioimmunoassay (RIA)

Product Details

Immunogen: Purified human beta2-microglobulin
Clone: B2M-01
Isotype: IgG2a
Specificity: The antibody B2M-01 reacts with beta2-microglobulin (beta2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. Beta2M is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.
No Cross-Reactivity: Mouse (Murine), Cow (Bovine), Dog (Canine), Rabbit, Chicken
Cross-Reactivity (Details): Human
### Target Details

<table>
<thead>
<tr>
<th>Target:</th>
<th>beta-2 Microglobulin (B2M)</th>
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<tbody>
<tr>
<td>Alternative Name:</td>
<td>beta2-Microglobulin (B2M Products)</td>
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**Background:** Beta2-microglobulin non-covalently associates with the 44 kDa alpha chain to forms the HLA Class I antigen complex. Human beta2-microglobulin associated with HLA Class I antigens is expressed on many types of cells including lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on erythrocytes.

**Pathways:** TCR Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

### Application Details

**Application Notes:** The reagent is designed for quantitative determination of soluble beta2-microglobulin/MHC Class I complexes. The reagent can also be used for detection of free beta2-microglobulin by Western blotting.

**Comment:** The purified antibody is conjugated with horseradish peroxidase (HRP) of high specific activity and RZ=3.

**Restrictions:** For Research Use only

### Handling

**Concentration:** 1 mg/mL

**Buffer:** The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 0.01 % (w/v) thimerosal.

**Preservative:** Thimerosal (Merthiolate)

**Precaution of Use:** This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Handling Advice:** Do not freeze.
 Avoid prolonged exposure to light.

**Storage:** 4 °C

**Storage Comment:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Publications


Images

Immunofluorescence

Image 1. Confocal microscopy of human β2-microglobulin-transfected canine cells labeled A) with B2M-01 antibody Alexa Fluor® 647 conjugate and B) with Alexa Fluor® 647 conjugated Mouse IgG2a Isotype Control (A6-458-C100). Cells were fixed with 4% PFA and permeabilized with 0.1% PBS-Tween20 containing 2% BSA. Antibody concentration 2µg/ml.
**Western Blotting**

**Image 2.** Western Blotting analysis (non-reducing conditions) of whole cell lysate of various cell lines using anti-human β2-microglobulin (B2M-01). Lane 1: RAJI human Burkitt lymphoma cell line. Lane 2: EL4 mouse lymphoblastic lymphoma cell line. Lane 3: U937 human histiocytic lymphoma cell line.

**ELISA**

**Image 3.** ELISA analysis of HLA-G and β2-microglobulin in supernatant of HLA-G transfectants with anti-β2-microglobulin (B2M-01) HRP as the detection antibody.