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**Product Name: HLA-F Mouse Monoclonal Antibody****Catalog #: AMM82810**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | WB,ELISA,FC   |
| <b>Reactivity</b>    | Human, Mouse, Rat   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG2b   |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide                            |
| <b>Purification</b>  | Affinity Purification   |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 39kDa   |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | HLA-F   |
| <b>Alternative Names</b> | HLAF; CDA12; HLA-5.4; HLA-CDA12   |
| <b>Gene ID</b>           | 3134.0  |
| <b>SwissProt ID</b>      | P30511  |
| <b>Immunogen</b>         | Purified recombinant fragment of human HLA-F (AA: 22-305) expressed in E. Coli. |

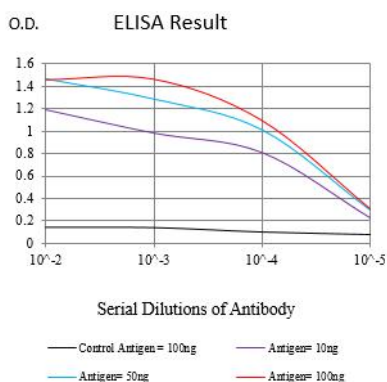
**Background**

This gene belongs to the HLA class I heavy chain paralogues. It encodes a non-classical heavy chain that forms a heterodimer with a beta-2 microglobulin light chain, with the heavy chain anchored in the membrane. Unlike most other HLA heavy chains, this molecule is localized in the endoplasmic reticulum and Golgi apparatus, with a small amount present at the cell surface in

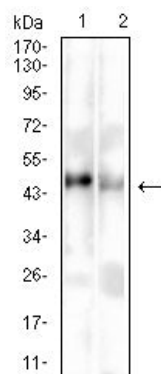
some cell types. It contains a divergent peptide-binding groove, and is thought to bind a restricted subset of peptides for immune presentation. This gene exhibits few polymorphisms. Multiple transcript variants encoding different isoforms have been found for this gene. These variants lack a coding exon found in transcripts from other HLA paralogues due to an altered splice acceptor site, resulting in a shorter cytoplasmic domain.

## Research Area

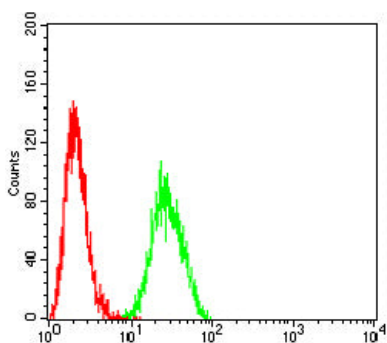
## Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Western blot analysis using HLA-F mouse mAb against Mouse Liver (1) and Rat Liver (2) tissue lysate.



Flow cytometric analysis of THP-1 cells using HLA-F mouse mAb (green) and negative control (red).