

## HLA-F Rabbit pAb

CatalogNo: YN5915

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human

#### Applications

- WB

#### MW

- 38kD (Calculated)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-2000

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human HLA-F

**Specificity** This antibody detects endogenous levels of HLA-F at Human

### Target Information

**Gene name** HLA-F HLA-5.4 HLAF

<b>Protein Name</b>	HLA class I histocompatibility antigen, alpha chain F (CDA12) (HLA F antigen) (Leukocyte antigen F) (MHC class I antigen F)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">3134;</a>	<a href="#">P30511;</a>
<b>Cellular Localization</b>	Cell membrane ; Single-pass type I membrane protein. Early endosome membrane . Lysosome membrane . For cross-presentation transits from the cell surface through endosomal pathway to lysosomes, where the peptide is generated from internalized exogenous antigen. .		
<b>Tissue specificity</b>	Expressed in resting B cells (at protein level). Expressed in secondary lymphoid organs rich in B and T cells such as the tonsils, spleen, and thymus (at protein level) (PubMed:10605026, PubMed:11169396). Expressed in the endothelial cells of the tonsils (PubMed:11169396). Expressed on activated lymphoid cells including B cells, NK cells, CD4+ T cells and memory T cells (at protein level) (PubMed:27455421, PubMed:20865824). Expressed in motor neurons of spinal cord (PubMed:26928464).		
<b>Function</b>	Non-classical major histocompatibility class Ib molecule postulated to play a role in immune surveillance, immune tolerance and inflammation. Functions in two forms, as a heterotrimeric complex with B2M/beta-2 microglobulin and a peptide (peptide-bound HLA-F-B2M) and as an open conformer (OC) devoid of peptide and B2M (peptide-free OC). In complex with B2M, presents non-canonical self-peptides carrying post-translational modifications, particularly phosphorylated self-peptides. Peptide-bound HLA-F-B2M acts as a ligand for LILRB1 inhibitory receptor, a major player in maternal-fetal tolerance. Peptide-free OC acts as a ligand for KIR3DS1 and KIR3DL2 receptors . Upon interaction with activating KIR3DS1 receptor on NK cells, triggers NK cell degranulation and anti-viral cytokine production . Through interaction with KIR3DL2 receptor, inhibits NK and T cell effector functions . May interact with other MHC class I OCs to cross-present exogenous viral, tumor or minor histompatibility antigens to cytotoxic CD8+ T cells, triggering effector and memory responses . May play a role in inflammatory responses in the peripheral nervous system. Through interaction with KIR3DL2, may protect motor neurons from astrocyte-induced toxicity .		

## Validation Data

## Contact information

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