

# CD1d Rabbit mAb

Catalog No.: A26678 **Recombinant**

## Basic Information

### Observed MW

40kDa/55kDa

### Calculated MW

39kDa/38kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,ELISA

### Cross-Reactivity

Mouse, Rat

### CloneNo number

ARC68856

## Background

Enables T cell receptor binding activity and endogenous lipid antigen binding activity. Involved in NK T cell differentiation and regulation of immature T cell proliferation in thymus. Acts upstream of or within several processes, including antigen processing and presentation, exogenous lipid antigen via MHC class Ib; positive regulation of cytokine production; and positive regulation of leukocyte activation. Located in endosome; external side of plasma membrane; and lysosome. Is expressed in forebrain; intestine; jaw bone; and liver. Human ortholog(s) of this gene implicated in pulmonary tuberculosis. Orthologous to human CD1D (CD1d molecule).

## Recommended Dilutions

**WB** 1:12500 - 1:50000

**IF/ICC** 1:150 - 1:1500

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

12479/12480

### Swiss Prot

P11609/P11610

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 22-305 of mouse CD1d (NP\_031665.2/NP\_031666.2).

### Synonyms

Cd1a; Cd1d; CD1.1; Ly-38

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

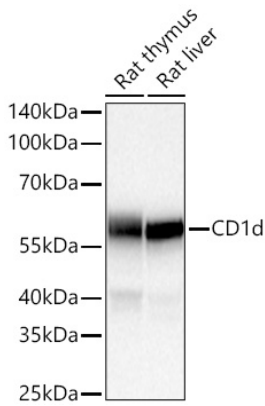
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of various lysates using CD1d Rabbit mAb (A26678) at 1:25000 dilution incubated overnight at 4°C.

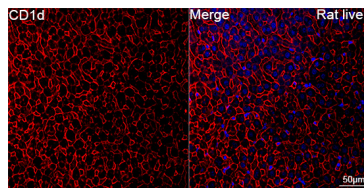
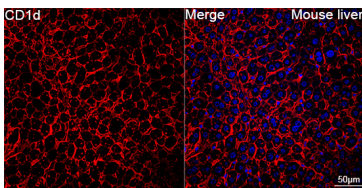
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45s.



Confocal imaging of paraffin-embedded Mouse liver tissue using CD1d Rabbit mAb (A26678, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Rat liver tissue using CD1d Rabbit mAb (A26678, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.