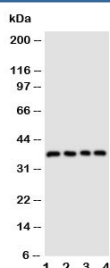


CD1d Antibody (R30948)

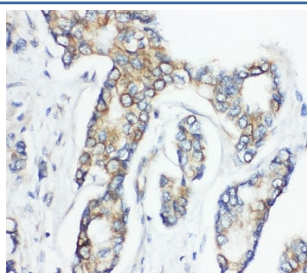
Catalog No.	Formulation	Size
R30948	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P15813
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This CD1d antibody is available for research use only.



Western blot testing of CD1d antibody and Lane 1: COLO320; 2: HeLa; 3: HT1080; 4: Jurkat cell lysate



IHC-P: CD1d antibody testing of human breast cancer tissue

Description

CD1d is the sole group-2 member of the CD1 family of major histocompatibility (MHC)-like glycoproteins expressed on the surface of various human antigen-presenting cells. They are related to the class I MHC molecules, and are involved in the presentation of lipid antigens to T cells. CD1d presented lipid antigens activate a special class of T cells, known as Natural Killer T (NKT) cells. When activated, NKT cells rapidly produce Th1 and Th2 cytokines, typically represented by interferon-gamma and IL-4 production. Jayawardena-Wolf et al. described 2 different pathways of CD1d trafficking to endosomal compartments in mouse cells. A tyrosine-based motif governs recycling between the plasma membrane and the endosome, while CD1d associates, like major histocompatibility complex class II antigens, with the invariant chain, or II, in the endoplasmic reticulum. Both pathways enhance antigen presentation to CD1d-restricted natural killer T cells.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD1d antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 76-92 (FSDQQWETLQHIFRVYR-human) were used as the immunogen for this CD1d antibody.

Storage

After reconstitution, the CD1d antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.