Purified Anti-Mouse CD1d Antibody[19G11], Functional Grade

catalog number: **E-AB-F10320**

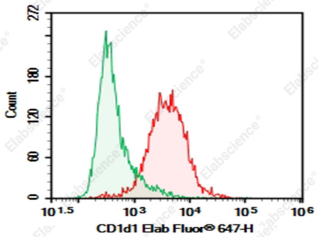
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

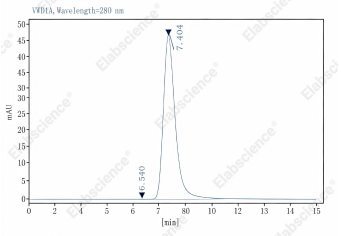
Reactivity	Mouse
Immunogen	Recombinant Mouse CD1d protein
Host	Rat
Isotype	Rat IgG1, κ
Clone	19G11
Purification	> 98%, Protein A/G purified, ≥ 95% monomer by analytical SEC
Endotoxin	< 1 EU/mg determined by LAL assay
Conjugation	Unconjugated
Buffer	Sterile PBS, pH 7.2. Contains no stabilizers or preservatives

Applications	Recommended Dilution
FCM	≤ 0.2 μg per million cells in 100 μL volume
Neut	Reported in the literature

Data



C57/BL6 Mouse splenocytes were stained with 0.2 μg Purified Anti-Mouse CD1d Antibody[19G11], Functional Grade (Right) and 0.2 μg Rat IgG2b, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.



Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze/thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.
Shipping	Ice bag

Background

CD1d is a type I transmembrane protein and member of the MHC family, with a molecular weight ranging from 43-49 kD, depending on the glycosylation degree. CD1d is expressed by antigen presenting cells such as dendritic cells, monocytes, macrophages and B cells;also expressed by thymocytes and intestinal epithelial cells. CD1d present glycolipids to iNKT cells that recognize them by their Vα14i TCR.

None (Azide-Free, Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

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Application References

Torsten Olszak, et al. Nature. 2014 May 22;509(7501):497-502.