



# Mouse Anti-Human CD1a Monoclonal antibody, clone OKT-6 (CABT-L4477)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

The OKT-6 monoclonal antibody reacts with human CD1a a member of the CD1 family of transmembrane glycoproteins. The CD1 proteins are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with  $\beta$ 2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells.

<b>Target</b>	Human CD1a
<b>Immunogen</b>	Human acute lymphoblastic leukaemia cells
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	OKT-6
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vitro CD1a blockade, FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 $\mu$ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific

<b>Size</b>	5 mg
<b>Buffer</b>	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]  Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to the plasma membrane and to recycling vesicles of the early endocytic system. Alternatively spliced transcript variants have been observed, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
<b>Keywords</b>	CD1A;CD1a molecule;R4;T6;CD1;FCB6;HTA1;T-cell surface glycoprotein CD1a;hTa1 thymocyte antigen;CD1A antigen, a polypeptide

## GENE INFORMATION

<b>Official Symbol</b>	CD1a molecule
<b>Synonyms</b>	CD1A; CD1a molecule; R4; T6; CD1; FCB6; HTA1; T-cell surface glycoprotein CD1a; hTa1 thymocyte antigen; CD1A antigen, a polypeptide
<b>References</b>	Bourgeois, E. A., et al. (2015). "Bee venom processes human skin lipids for presentation by CD1a." <i>J Exp Med</i> 212(2): 149-163. PubMed;