



Mouse Anti-Rat CD80 (B7-1) Monoclonal antibody, clone 3H5 (CABT-L4318)

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

PRODUCT INFORMATION

Product Overview	The 3H5 monoclonal antibody reacts with rat CD80 also known as B7-1.
Target	Rat CD80 (B7-1)
Immunogen	HTLV-1-transformed Lewis-S1 rat T cell line
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Rat
Clone	3H5
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro CD80 blockade, FC
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	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

Preservative	None
---------------------	------

Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
----------------	-------------------------------------------------------------------------------------------------------------------------

Ship	Wet ice
-------------	---------

BACKGROUND

Introduction The 3H5 monoclonal antibody reacts with rat CD80 also known as B7-1. CD80 is a 60 kDa Ig superfamily member and is expressed by activated B cells and constitutively by monocytes and dendritic cells. This ligand binds to CD28 to provide a costimulatory signal necessary for T cell activation and survival, and cytokine production. Additionally, CD80 binds to CTLA-4 which inhibits T cells. The 3H5 antibody has been shown to block CD80-mediated co-stimulation of rat T cells in vitro.

Keywords CD80;CD80 antigen;B71;Ly53;TSA1;Cd28I;Ly-53;MIC17;T-lymphocyte activation antigen
CD80;B7 protein;activation B7-1 antigen;

GENE INFORMATION

Official Symbol	CD80 antigen
------------------------	--------------

Synonyms	CD80; CD80 antigen; B71; Ly53; TSA1; Cd28I; Ly-53; MIC17; T-lymphocyte activation antigen CD80; B7 protein; activation B7-1 antigen;
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------

References	Dolen, Y., et al. (2015). "Granulocytic subset of myeloid derived suppressor cells in rats with mammary carcinoma." Cell Immunol 295(1): 29-35. PubMed;
-------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------
