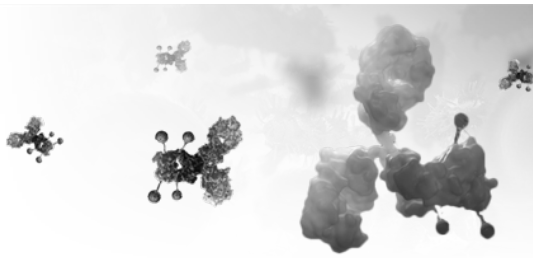

Mouse Anti-Human CD47 (IAP) Monoclonal antibody, clone MIAP410 (CABT-L4517)

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

PRODUCT INFORMATION

Product Overview	The MIAP410 monoclonal antibody reacts with mouse CD47 otherwise known as integrin-associated protein (IAP).
Target	Mouse/Human/Rat CD47 (IAP)
Immunogen	purified human placental CD47
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Rat, Mouse
Clone	MIAP410
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD47 blockade, in vitro CD48 blocking, IF
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]

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	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 MIAP410 monoclonal antibody reacts with mouse CD47 otherwise known as integrin-associated protein (IAP). CD47 is an approximately 50 kDa glycosylated five transmembrane protein that is ubiquitously expressed by both hematopoietic cells such as T and B lymphocytes, monocytes, platelets and erythrocytes and non-hematopoietic cells. CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. Furthermore, it plays a key role in immune and angiogenic responses. CD47 is a receptor for thrombospondin-1 (TSP-1), a secreted glycoprotein that plays a role in vascular development and angiogenesis. CD47 Is has been found to be overexpressed in many different tumor cells. Because of this, anti-CD47 monoclonal antibodies have been proposed and studied as a therapeutic treatment for human cancers. The MIAP410 antibody has been shown to neutralize CD47 in vivo and in vitro.
Keywords	CD47;CD47 molecule;IAP;OA3;MER6;leukocyte surface antigen CD47;CD47 glycoprotein;Rh-related antigen;integrin associated protein;integrin-associated protein;integrin-associated signal transducer;antigenic surface determinant protein OA3;antigen identified by monoclonal antibody 1D8;CD47 antigen (Rh-related antigen, integrin-associated signal transducer);

GENE INFORMATION

Official Symbol	CD47 molecule
Synonyms	CD47; CD47 molecule; IAP; OA3; MER6; leukocyte surface antigen CD47; CD47 glycoprotein; Rh-related antigen; integrin associated protein; integrin-associated protein; integrin-associated signal transducer; antigenic surface determinant protein OA3; antigen identified by monoclonal antibody 1D8; CD47 antigen (Rh-related antigen, integrin-associated signal transducer);
References	Kojima, Y., et al. (2016). "CD47-blocking antibodies restore phagocytosis and prevent atherosclerosis." Nature. DOI: 10.1038/nature18935. PubMed;

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