



Anti-CD274 monoclonal antibody, clone MIH6 (CABT-47439RM)

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

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD274 antibody, clone MIH6 detects mouse CD274, also known as B7-H1 and PD-1L, a single pass type I cell membrane glycoprotein, a member of the B7 family of co-stimulatory molecules. CD274 is expressed constitutively on macrophages and dendritic cells, and is induced on activated T-cells, B-cells, endothelial cells and epithelial cells in response to Interferons alpha, beta and gamma. CD274 is reported to possess dual functions; inhibition of activated effector T cells and co-stimulation of na?ve T cells. CD274 inhibits proliferation of activated T cells via ligation to the co-inhibitory molecule CD279 (programmed death-1; PD-1) leading to the secretion of the regulatory cytokine interleukin-10. CD274 has also been shown to costimulate early T cell priming and differentiation. Deregulated CD274 function has been reported in chronic viral and intracellular bacterial infection, as well as in many autoimmune diseases and cancers. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	CD274
Immunogen	Mouse CD274 - transfected L5178Y cells.
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	MIH6
Conjugate	Unconjugated
Applications	IHC-Fr; FC; FA; IP
Format	Purified IgG - liquid

Size	500 µg
Preservative	None
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd274 CD274 antigen [Mus musculus (house mouse)]
Official Symbol	CD274
Synonyms	CD274; CD274 antigen; B7h1; Pdl1; Pdcd1l1; Pdcd1lg1; A530045L16Rik; programmed cell death 1 ligand 1; B7 homolog 1; PDCD1 ligand 1; programmed death ligand 1;
Entrez Gene ID	60533
Protein Refseq	NP_068693
UniProt ID	Q9EP73
Chromosome Location	19; 19 C2
Pathway	Adaptive Immune System; Cell adhesion molecules (CAMs); Costimulation by the CD28 family; Immune System; PD-1 signaling;
Function	protein binding;