



Mouse Anti-Mouse IL-9 Monoclonal antibody, clone 9C1 (CABT-L4457)

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

PRODUCT INFORMATION

Product Overview

The 9C1 monoclonal antibody reacts with mouse IL-9, a pleiotropic cytokine expressed by Th9 cells, Th2 cells, Th17 cells, regulatory T cells, NKT cells, ILC2s, and mast cells. IL-9 promotes mast cell and T cell proliferation, stimulates mast cell accumulation in tissues, promotes ILC survival, enhances class-switching to IgE in B cells and alters haematopoietic progenitor cell activity. Additionally, IL-9 enhances mucus production from airway epithelial cells and alters barrier function in the intestines. IL-9 is thought to contribute to asthma. The 9C1 antibody has been reported to block the bioactivity of IL-9.

Target	Mouse IL-9
Immunogen	Mouse IL-9-OVA complex
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Mouse
Clone	9C1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo IL-9 neutralization
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	Supports IL-2 independent and IL-4 independent growth of helper T-cells.
Keywords	IL9;interleukin 9;interleukin-9;homolog of mouse T cell and mast cell growth factor 40;HP40;IL 9;P40;p40 cytokine;p40 T cell and mast cell growth factor;T cell growth factor p40;cytokine P40;T-cell growth factor p40;p40 T-cell and mast cell growth factor;IL-9;

GENE INFORMATION

Official Symbol	interleukin 9
Synonyms	IL9; interleukin 9; interleukin-9; homolog of mouse T cell and mast cell growth factor 40; HP40; IL 9; P40; p40 cytokine; p40 T cell and mast cell growth factor; T cell growth factor p40; cytokine P40; T-cell growth factor p40; p40 T-cell and mast cell growth factor; IL-9;
References	Monteiro, M., et al. (2015). "IL-9 Expression by Invariant NKT Cells Is Not Imprinted during Thymic Development." J Immunol 195(7): 3463-3471. PubMed;