

ARG23274 anti-SERPINB9 antibody [7D8]

Package: 50 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [7D8] recognizes SERPINB9 Mouse anti Human PI-9 antibody, clone 7D8 recognizes human PI-9 (proteinase inhibitor 9), also known as SerpinB9, a ~42kDa intracellular nucleocytoplasmic serpin expressed in cytotoxic lymphocytes (CTLs), natural killer (NK) cells, monocyte-derived dendritic cells (DCs), and to a lesser extent in B cells and myeloid cells. Granzyme B (grB) is a serine protease highly expressed by CTLs and NK cells, which is endocytosed by virus-infected and malignant target cells. The subsequent release of grB from the endocytic vesicles into the cytoplasm of the target cells, triggers grB-mediated apoptosis, through cleavage of various cytoplasmic or nuclear proteins. PI-9, up-regulated in response to grB production and degranulation, has been identified as a potent inhibitor of Granzyme B-mediated apoptosis, providing a vital self-protection mechanism against the premature apoptosis of CTLs and NK cells by grB, which may escape into the cytoplasm of the effector cells themselves. Clone 7D8 has been reported to work in western blotting applications. Clone 7D8 is suitable for use in indirect Immunofluorescence (Hirst et al. 2003).
Tested Reactivity	Hu
Species Does Not React With	Ms, Pig
Tested Application	FACS, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	7D8
Isotype	IgG1
Target Name	SERPINB9
Species	Human
Immunogen	Recombinant SERPINB9 produced in <i>P. pastoris</i> .
Conjugation	Un-conjugated
Alternate Names	Cytoplasmic antipeptidase 3; Peptidase inhibitor 9; CAP-3; PI-9; PI9; Serpin B9; CAP3

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:100
	IHC-Fr	Assay-dependent
	IHC-P	1:50
	WB	Assay-dependent
Application Note	FACS: Membrane permeabilisation is required for this application. Use 10 µl of the suggested working dilution to label 10 ⁶ cells in 100 µl. IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.05% Sodium azide.
Preservative	0.05% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SERPINB9
Gene Full Name	serpin peptidase inhibitor, clade B (ovalbumin), member 9
Background	This gene encodes a member of the serine protease inhibitor family which are also known as serpins. The encoded protein belongs to a subfamily of intracellular serpins. This protein inhibits the activity of the effector molecule granzyme B. Overexpression of this protein may prevent cytotoxic T-lymphocytes from eliminating certain tumor cells. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Mar 2012]
Function	Granzyme B inhibitor. [UniProt]
Highlight	Related products: SERPINB9 antibodies ; Anti-Mouse IgG secondary antibodies ; Related news: Anti-SerpinB9 therapy, a new strategy for cancer therapy
Calculated Mw	42 kDa