

Product datasheet for **AM08218SU-N**

Perforin (PRF1) (C-term) Mouse Monoclonal Antibody [Clone ID: 5B10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5B10
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Paraffin Embedded Sections: 1/10-1/20 in an ABC method (60 minutes at room temperature). Paraffin-embedded tissue sections require high temperature antigen unmasking using 10 mM citrate buffer, pH 6.0 prior to immunostaining. Positive Control: Spleen.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein corresponding to an external region of the C-terminus of the perforin molecule.
Specificity:	This antibody is specific to a 70 kD protein, which is a potent cytolytic pore-forming protein. Cellular Localization: Cytoplasmic.
Formulation:	State: Supernatant State: Tissue Culture Supernatant containing Sodium Azide as a preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	perforin 1
Database Link:	Entrez Gene 5551 Human P14222



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Background:

Perforin is one of the major cytolytic proteins of cytolytic granules. One of the main pathways of lymphocyte mediated cytotoxicity entails the secretion onto target membranes of cytotoxic granules contained in cytotoxic effector lymphocytes of T cell or NK cell type. Perforin is a cytotoxic mediator and is stored in and released by cytoplasmic granules. Perforin is involved in the killing mediated by cytotoxic lymphocytes, which represents an important mechanism in the immune defense against tumors and virus infections. Human perforin is a 555 amino acid protein with a 21 amino acid signal peptide. It has a molecular weight of 70 to 75 kDa. Perforin is a pore forming protein with a mechanism of transmembrane channel formation similar to C9 and homology between perforin and C9 has been demonstrated at their respective functionally conserved regions. Studies show that perforin is expressed only in killer cell lines and not in helper T lymphocytes or other tumor cells tested.

Synonyms:

Perforin-1, Pore forming protein, PFN, PFP, Cytolysin