

Product datasheet for **SM1382**

alpha Defensin 1 (DEFA1) Mouse Monoclonal Antibody [Clone ID: DEF-3]

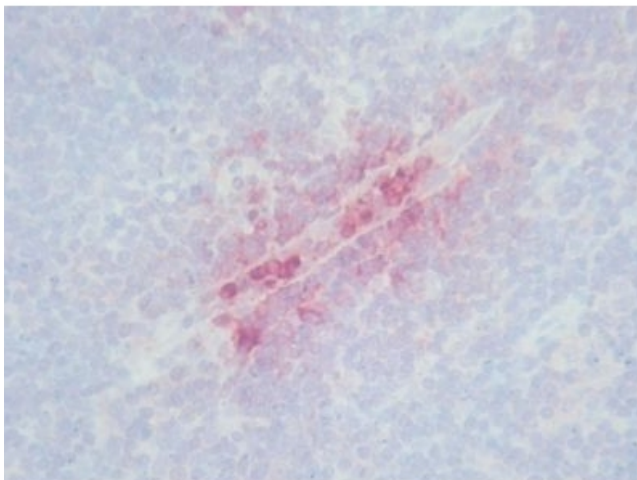
Product data:

Product Type:	Primary Antibodies
Clone Name:	DEF-3
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 0.2 µg/ml (1/1000). Immunohistochemistry on Paraffin Sections: 0.5 µg/ml (1/400), Proteinase K pretreatment for antigen retrieval is recommended. <i>Positive Control:</i> Human tonsil. Has been described to work in FACS with permeabilized cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Native defensins. The epitope has not been further characterized.
Specificity:	Several Defensins are recognized. This antibody recognises a family of Cyclic Peptides in Neutrophils. Human: Defensin 1-3 (HNP-1 to HNP-3) in Human Neutrophils. Synthetic Defensin-1 and -2 (Bachem, Bubendorf CH) stain also positively. Not tested with Defensin-4. A side reaction to elastin has been observed in humans. Other: not tested. Defensins have been described in rabbits (NP-1 to NP-5, NP3a = Corticostatin), and in mice (cryptodin).
Formulation:	PBS, pH 7.2, containing 5 mg/ml BSA and 0.09% sodium azide State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity chromatography
Conjugation:	Unconjugated

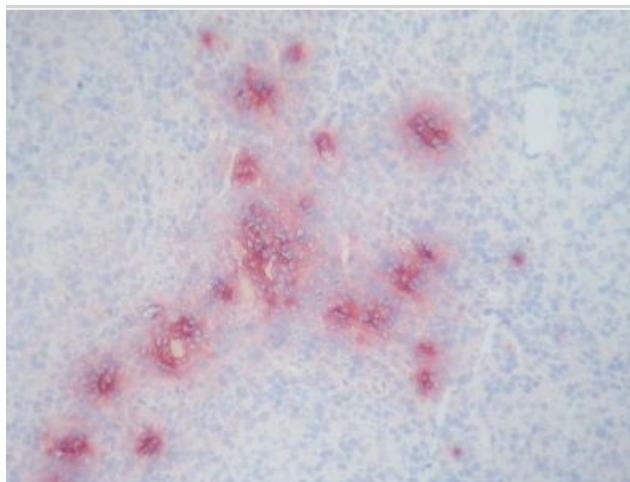


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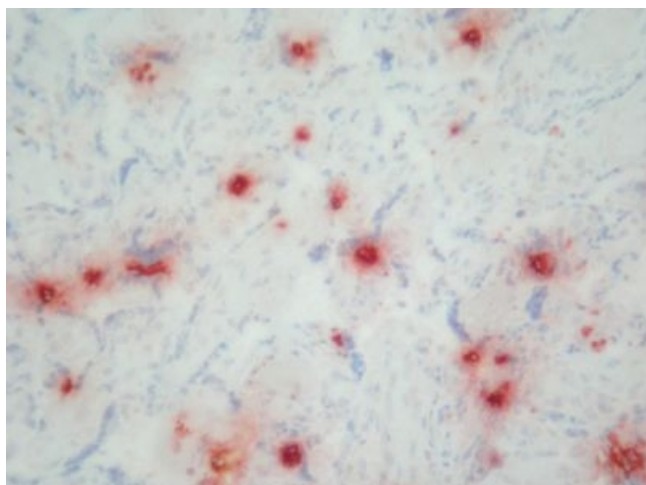
Storage:	Store the original vial at 2-8°C. Freeze stock solution or aliquots thereof at -20°C. Avoid repeated freezing and thawing. Do not freeze working dilutions.
Stability:	Shelf life: one year from despatch.
Gene Name:	defensin alpha 1
Database Link:	Entrez Gene 728358 Human Entrez Gene 1667 Human P59665
Background:	Defensins are a family of cyclic peptides containing 29-35 amino acids (MW < 3500) which tend to form aggregates. Four of these peptides are described in humans (HNP-1 to 4), six in rabbits (NP-1 to 5). Synonyms are MCP-1 for NP-1, MCP-2 for NP-2 and corticostatin for NP-3. Biological Functions: Various functions have been described for defensins. They are antibacterial, antifungal, chemotactic for monocytes, inhibitory for ACTH-induced corticosteroid synthesis and cytotoxic for cells. Defensins are inhibited by glucosaminoglycans (self protection for cells) and high concentrations of Ca ²⁺ ions.
Synonyms:	DEFA1, DEF-A1, DEFA-1, DEF1, DEFA2, MRS, DEF-1, DEFA-2, DEF-A2, HNP-1, HP-1, HP1, HNP1, Neutrophil defensin 1, DEFA3, DEFA-3, DEF-A3, DEF3, DEF-3, HNP-3, HP-3, HP3, HNP3, Neutrophil defensin 3, Defensin alpha 1, Defensin alpha 3
Protein Families:	Druggable Genome

Product images:

Defensin antibody staining of Human Tonsil Paraffin Section.



Defensin antibody staining of Human Tonsil Frozen Section.



Defensin antibody staining of Human Placenta Frozen Section.