

Product datasheet

anti-MRP14/S100A9/calgranulin B mouse monoclonal, 47-8D3, purified

Short overview

Cat. No.	691519
Quantity	1 ml (100 µg/ml)
Concentration	100 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 kappa
Clone	47-8D3
Immunogen	Human peripheral blood monocyte components derived by affinity chromatography with Sepharose 4B coupled to rabbit monocyte antibodies
Formulation	PBS with 0.02% sodium azide
UniprotID	A0A452EXE8 (Goat), H0UWS6 (Guinea pig), F6T046 (Horse), P06702 (Human), F6Q697 (Pig), P50117 (Rabbit), P50117 (Rabbit), P50116 (Rat)
Synonym	Protein S100-A9, Calgranulin-B, Calprotectin L1H subunit, Leukocyte L1 complex heavy chain, Migration inhibitory factor-related protein 14, MRP-14, p14, S100 calcium-binding protein A9, S100A9, CAGB, CFAG, MRP14
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	FACS, ICC/IF, IHC, WB
Reactivity	Cat, Dog, Goat, Guinea pig, Horse, Human, Monkey, Pig, Rabbit, Rat

Applications

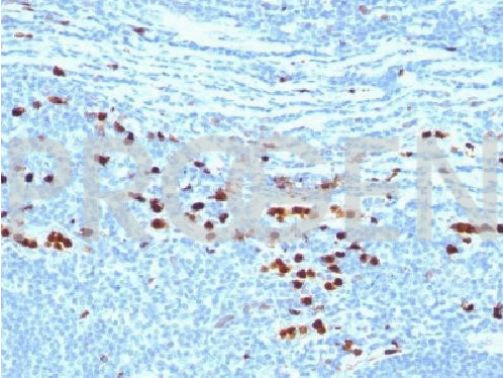
Flow Cytometry (FACS)	1-2 µg/million cells in 0.1 ml, fix cells in 4% PFA for 10 min at 4°C, permeabilize with 0.2% saponin or digitonin for 15 min at 4°C
Immunocytochemistry (ICC)	1:50-1:100 (1-2 µg/ml)
Immunohistochemistry (IHC) - frozen	1:50-1:100 (1-2 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:50-1:100 (1-2 µg/ml; microwave treatment in 10 mM citrate buffer pH 6.0 or digestion with trypsin at 1 mg/ml PBS recommended)
Western Blot (WB)	1:50-1:100 (1-2 µg/ml)

Background

47-8D3 reacts with macrophages and detects the well-known leukocyte L1, a cystic fibrosis antigen. Detecting a single protein
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band of 14 kDa in Western blots of lysates of human monocytes and granulocytes, the antigen was identified as the calcium-binding protein MRP14, which is a member of the S100 family involved a.o. in regulating the cell cycle. MRP14 is also implicated in the abnormal differentiation of myeloid cells in the stroma of cancer. It is further found on squamous mucosal epithelia. When associated with MRP8 it forms the heterodimer calprotectin. Positive control: monocytes, macrophages, granulocytes.

Product images



Human tonsil