

## Product datasheet

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

### Short overview

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

### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1 kappa
<b>Clone</b>	47-8D3
<b>Immunogen</b>	Human peripheral blood monocyte components derived by affinity chromatography with Sepharose 4B coupled to rabbit monocyte antibodies
<b>Formulation</b>	PBS with 0.02% sodium azide
<b>UniprotID</b>	A0A452EXE8 (Goat), H0UWS6 (Guinea pig), F6T046 (Horse), P06702 (Human), F6Q697 (Pig), P50117 (Rabbit), P50117 (Rabbit), P50116 (Rat)
<b>Synonym</b>	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
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	FACS, ICC/IF, IHC, WB
<b>Reactivity</b>	Cat, Dog, Goat, Guinea pig, Horse, Human, Monkey, Pig, Rabbit, Rat

### Applications

<b>Flow Cytometry (FACS)</b>	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
<b>Immunocytochemistry (ICC)</b>	1:50-1:100 (1-2 µg/ml)
<b>Immunohistochemistry (IHC) - frozen</b>	1:50-1:100 (1-2 µg/ml)
<b>Immunohistochemistry (IHC) - paraffin</b>	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)
<b>Western Blot (WB)</b>	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 band of 14 kDa in PROGEN Biotechnik GmbH | Maaßstraße 30 | D-69123 Heidelberg

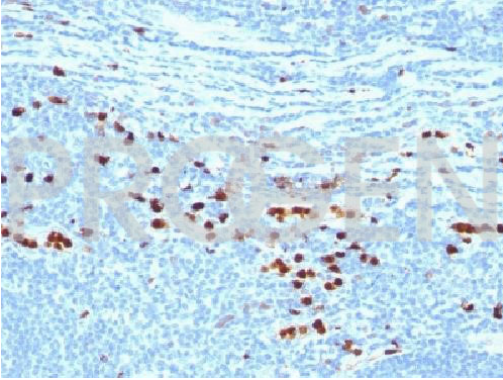
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Western blots of lysates of human monocytes and granulocytes, the antigen was identified as the calcium-binding protein MRP14, which is a member of the S100 family involved a.o. in regulating the cell cycle. MRP14 is also implicated in the abnormal 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