Product datasheet

anti-Calprotectin S100A9 & S100A8/A9 Complex mouse monoclonal, 23-3-4, lyophilized, purified

Short overview

Cat. No.	610188
Quantity	100 µg
Concentration	100 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2b
Clone	23-3-4
Immunogen	Recombinant protein
Formulation	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ELISA, IHC, WB
Reactivity	Human

Applications

ELISA	1:50
Immunohistochemistry (IHC) - paraffin	1:300-1:1,000 (microwave treatment recommended)
Western Blot (WB)	1:1,000

Background

Calprotectin is a functional heterocomplex of small EF hand calcium binding proteins S100A8 and S100A9. The heterocomplex is expressed in various cell types and tissues and induced upon inflammation. The complex is released by neutrophilic granulocytes in inflammatory disorders such as inflammatory bowel disease and rheumatoid arthritis. Released Calprotectin serves as a leukocyte chemoattractant and modulates inflammation via damage receptors. Via its binding to the receptor of advanced glycation end-products (RAGE), calprotectin is implicated in chronic inflammation and cancer formation.

Tissue expression: strong expression in myeloid cells and psoriatic keratinocytes.

The antibody recognizes both the S100A8/A9 heterocomplex as well as S100A9 alone but not S100A8.

Product images

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