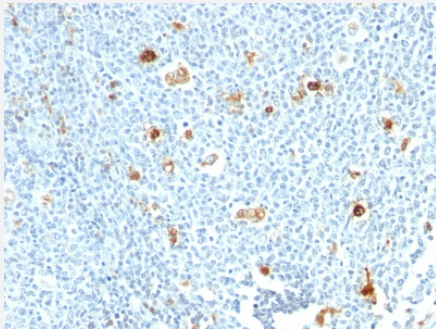


# Calprotectin monoclonal antibody, clone CPT/1028

Catalog # MAB14435      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with Calprotectin monoclonal antibody, clone CPT/1028 (Cat # MAB14435).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against human calprotectin.
<b>Immunogen</b>	Recombinant protein corresponding to human calprotectin.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	14
<b>Reactivity</b>	Human
<b>Specificity</b>	Recognizes the L1 or calprotectin molecule, an intra-cytoplasmic antigen comprising of a 12kDa alpha chain and a 14kDa beta chain. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and is important for identifying macrophages in tissue sections.
<b>Form</b>	Liquid
<b>Purification</b>	Polyethylene Glycol (PEG) precipitation
<b>Isotype</b>	IgM, kappa

<b>Recommend Usage</b>	Flow Cytometry (0.5-1 ug/million cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 1 mM PBS (0.05% BSA and 0.05% azide).
<b>Storage Instruction</b>	Store at 4°C.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with Calprotectin monoclonal antibody, clone CPT/1028 (Cat # MAB14435).

- Immunofluorescence
- Flow Cytometry

## Gene Info — S100A8

<b>Entrez GeneID</b>	<a href="#">6279</a>
<b>Protein Accession#</b>	<a href="#">P05109; P06702</a>
<b>Gene Name</b>	S100A8
<b>Gene Alias</b>	60B8AG, CAGA, CFAG, CGLA, CP-10, L1Ag, MA387, MIF, MRP8, NIF, P8
<b>Gene Description</b>	S100 calcium binding protein A8
<b>Omim ID</b>	<a href="#">123885</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis. [provided by RefSeq]

## Other Designations

OTTHUMP00000015329|OTTHUMP00000015330|S100 calcium-binding protein A8|S100 calcium-binding protein A8 (calgranulin A)|calgranulin A|cystic fibrosis antigen

## Gene Info — S100A9

## Entrez GeneID

[6280](#)

## Protein Accession#

[P05109; P06702](#)

## Gene Name

S100A9

## Gene Alias

60B8AG, CAGB, CFAG, CGLB, L1AG, LIAG, MAC387, MIF, MRP14, NIF, P14

## Gene Description

S100 calcium binding protein A9

## Omim ID

[123886](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. [provided by RefSeq]

## Other Designations

OTTHUMP00000015331|S100 calcium-binding protein A9|S100 calcium-binding protein A9 (calgranulin B)|calgranulin B

## Publication Reference

- [Expression of S100 proteins in normal human tissues and common cancers using tissue microarrays: S100A6, S100A8, S100A9 and S100A11 are all overexpressed in common cancers.](#)

Cross SS, Hamdy FC, Deloulme JC, Rehman I.

Histopathology 2005 Mar; 46(3):256.

Application: IHC-P, Human, Breast carcinoma, Human tissue microarray, Kidney, Ovary adenocarcinoma, Squamous cell carcinoma of the uterine cervix

## Disease

- [Aggressive Periodontitis](#)
- [Dermatitis](#)

- [Dermatitis](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Calculi](#)
- [Kidney Calculi](#)
- [Periodontitis](#)