

**Mouse Anti-Calprotectin [CPT/1028]: MC0639, MC0639RTU7**

**Intended Use:** For Research Use Only

**Description:** Expressed by macrophages in chronic inflammations. Also expressed in epithelial cells constitutively or induced during dermatoses. Calcium-binding protein. Has antimicrobial activity towards bacteria and fungi. Important for resistance to invasion by pathogenic bacteria. Up-regulates transcription of genes that are under the control of NF-kappa-B. Plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS) (By similarity). Promotes tubulin polymerization. Promotes phagocyte migration and infiltration of granulocytes at sites of wounding. Plays a role as pro-inflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1. Extracellular calprotectin binds to target cells and promotes apoptosis. Antimicrobial and proapoptotic activity is inhibited by zinc ions.

**Specifications:**

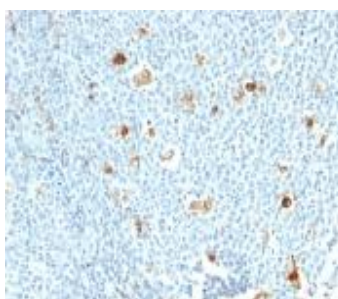
Clone: CPT/1028  
 Source: Mouse  
 Isotype: IgM/k  
 Reactivity: Human  
 Immunogen: Recombinant human Calprotectin protein  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
Calprotectin Concentrated	MC0639	1 ml
Calprotectin Prediluted	MC0639RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Neutrophil lysate  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-Calprotectin using DAB

**References:**

1. Immunological tumor status may predict response to neoadjuvant chemotherapy and outcome after radical cystectomy in bladder cancer. Tervahartiala M, et al. Sci Rep 7:12682, 2017.
2. Distribution pattern of tumor associated macrophages predicts the prognosis of gastric cancer. Liu JY, et al. Oncotarget 8:92757-92769, 2017.
3. Efficacy of a Fatty Acids Dietary Supplement in a Polyethylene Glycol-Induced Mouse Model of Retinal Degeneration. Cammalleri M, et al. Nutrients 9:N/A, 2017.