

**Mouse Anti-SLAMF7/CD319/CS1 [MD381]: MC0089, MC0088RTU7**

**Intended Use:** For Research Use Only

**Description:** SLAMF7, also known as novel Ly9, CD319, CS1, 19A24 or CRACC, is a homophilic cell surface receptor. It is a member of the SLAM (signaling lymphocytic activation molecule) family of receptors expressed on natural killer (NK) cells, T cells and stimulated B cells. SLAMF7 contains immunoreceptor tyrosine-based switch motifs in its cytoplasmic domain but, unlike other SLAM receptors, it does not recruit SAP (SLAM-associated protein). In humans, SLAMF7 activates NK cells through an EAT-2-mediated pathway that is SAP-independent. SLAMF7 recruits and associates with EAT2, a protein closely related to SAP. EAT2 induces phosphorylation of SLAMF7 which then, upon ligand binding, activates downstream cytotoxicity effectors PLC and PI 3K.

**Specifications:**

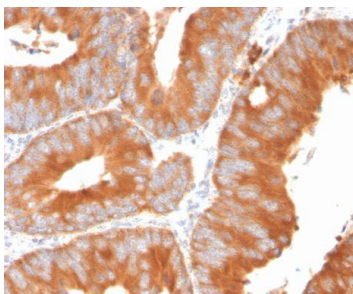
|               |                                                                                    |
|---------------|------------------------------------------------------------------------------------|
| Clone:        | MD381                                                                              |
| Source:       | Mouse                                                                              |
| Isotype:      | IgG1κ                                                                              |
| Reactivity:   | Human                                                                              |
| Immunogen:    | Recombinant fragment aa 249-335 of human SLAMF7 protein                            |
| Localization: | Membrane                                                                           |
| Formulation:  | Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN <sub>3</sub> ) |
| Storage:      | Store at 2°- 8°C                                                                   |
| Applications: | IHC                                                                                |
| Package:      |                                                                                    |

| Description                   | Catalog No. | Size |
|-------------------------------|-------------|------|
| SLAMF7/CD319/CS1 Concentrated | MC0089      | 1 ml |
| SLAMF7/CD319/CS1 Prediluted   | MC0088RTU7  | 7 ml |

**IHC Procedure\*:**

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| Positive Control Tissue:  | Tonsil, spleen                                                                      |
| Concentrated Dilution:    | 25-200                                                                              |
| 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 spleen stained with anti-SLAMF7 using DAB

**References:**

1. Complete sequencing and characterization of 21,243 full-length human cDNAs. Toshio Ota, et al. Nat Genet. Jan;36(1):40-5, 2004.
2. Mouse novel Ly9: a new member of the expanding CD150 (SLAM) family of leukocyte cell-surface receptors. Victoria Tovar, et al. Immunogenetics. Sep;54(6):394-402, 2002.
3. Molecular cloning of CS1, a novel human natural killer cell receptor belonging to the CD2 subset of the immunoglobulin superfamily. K S Boles, et al. Immunogenetics. 52(3-4):302-7, 2001.