

Stromal Interaction Molecule 1 (PT0730R) PT™ Rabbit mAb

CatalogNo: YM8540 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 77kD (Calculated)
- 77kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:1000-1:4000**WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

Basic Information

Clonality Monoclonal**Clone Number** PT0730R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.**Specificity** Endogenous

Target Information

Gene name STIM1 GOK

Protein Name Stromal interaction molecule 1

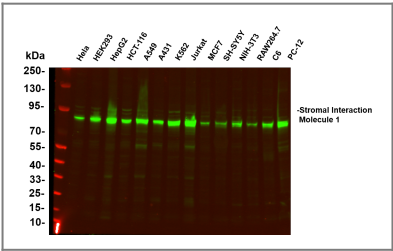
Organism	Gene ID	UniProt ID
Human	5578 ;	Q13586 ;
Mouse	20866 ;	P70302 ;
Rat		P05696 ;

Cellular Localization Membrane

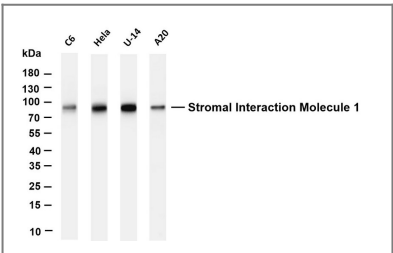
Tissue specificity Blood,Brain,Epithelium,Lung,Platelet,

Function Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores . Acts as Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca(2+) release-activated Ca(2+) (CRAC) channel subunit ORAI1 . Involved in enamel formation . Activated following interaction with STIMATE, leading to promote STIM1 conformational switch .

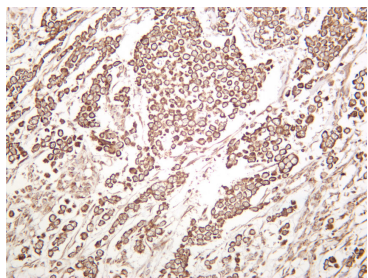
Validation Data



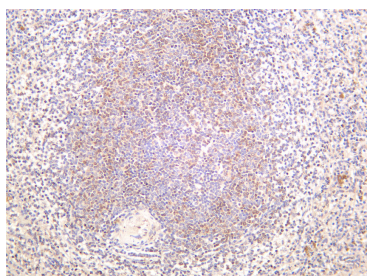
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats Predicted band size: 77kDa Observed band size: 77kDa



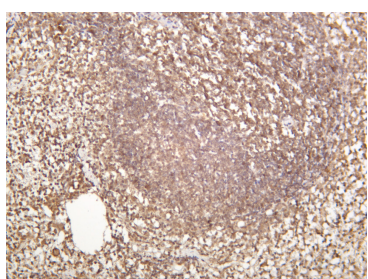
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Stromal Interaction Molecule 1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: U-14 Lane 4: A20 Predicted band size: 77kDa Observed band size: 77kDa



Human breast was stained with anti-Stromal Interaction Molecule 1 rabbit antibody



Human spleen was stained with anti-Stromal Interaction Molecule 1 rabbit antibody



Mouse spleen was stained with anti-Stromal Interaction Molecule 1 rabbit antibody

Contact information

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Please scan the QR code to access additional product information:
Stromal Interaction Molecule 1 (PT0730R) PT™ Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

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