

Rabbit anti-Human PITRM1 Polyclonal Antibody | anti-PITRM1 antibody

Anti-PITRM1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259016	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

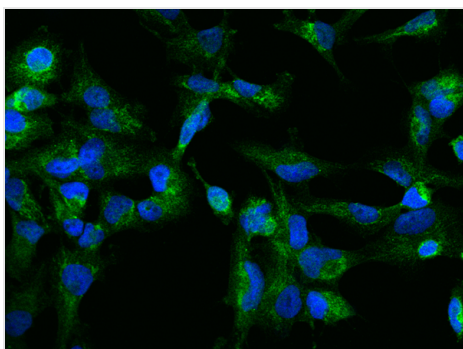
PRODUCT SYNONYMS

PITRM1; Polyclonal Antibody; Anti-PITRM1 Antibody; Rabbit Polyclonal; pitrilysin metallopeptidase 1; Anti-MP1 Antibody; Anti-PreP Antibody; anti-PITRM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PITRM1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PITRM1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	E coli-derived Human PITRM1 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human PITRM1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

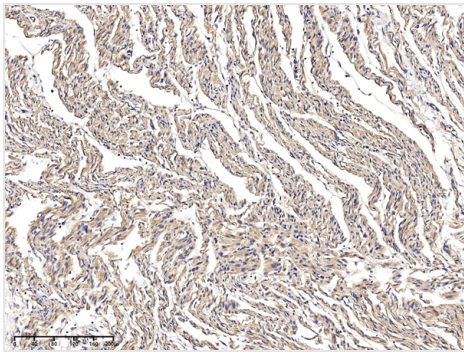
IMAGES


IF (Immunofluorescence)

Immunofluorescence staining of PITRM1 in U251MG cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human PITRM1 polyclonal antibody (dilution ratio 1:100) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.


IHC (Immunohistochemistry)

Immunochemical staining of human PITRM1 in human muscle with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
 Immunochemical staining of human PITRM1 in human heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-PITRM1 antibody	The pitrilysin metallopeptidase 1 (PITRM1) is a mitochondrial matrix enzyme, which digests oligopeptides, including the mitochondrial targeting sequences that are cleaved from proteins imported across the inner mitochondrial membrane and the mitochondrial fraction of amyloid beta (Abeta). PITRM1 is responsible for significant Abeta degradation and that impairment of its activity results in Abeta accumulation. Mutations in PITRM1, a mitochondrial protease involved in mitochondrial precursor processing and degradation, result in a slow-progressing syndrome characterized by cerebellar ataxia, psychotic episodes, and obsessive behavior, as well as cognitive decline.
References	Pérez MJ, et al. (2020) Loss of function of the mitochondrial peptidase pitrm1 induces proteotoxic stress and alzheimer's disease-like pathology in human cerebral organoids. Mol PsychiatryJiang K, et al. (2019) An exome-wide association study identifies new susceptibility loci for age of smoking initiation in african- and european-american populations. Nicotine Tob Res 21 (6): 707-713. Brunetti D, et al. (2016) Defective pitrm1 mitochondrial peptidase is associated with abeta amyloidotic neurodegeneration. EMBO Mol Med 8 (3): 176-190.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.