

Calpain 1 (PT1874R) PT™ Rabbit mAb

CatalogNo: YM960127 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 82kD (Calculated)
- 75kD (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 1:200-1:1000**WB 1:500-1:2000****IF 1:200-1:1000****ELISA 1:5000-1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT1874R

Immunogen Information

Specificity Endogenous

Target Information

Gene name CAPN1 CANPL1 PIG30

Protein Name Calpain-1 catalytic subunit (Calcium-activated neutral proteinase 1) (CANP 1) (Calpain mu-type) (Calpain-1 large subunit) (Cell proliferation-inducing gene 30 protein) (Micromolar-calpain) (muCANP)

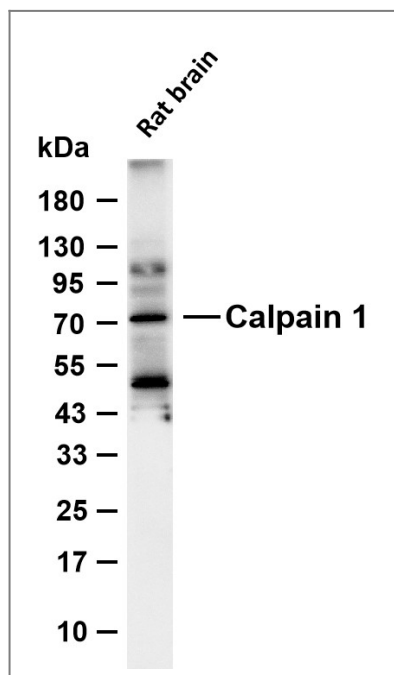
Organism	Gene ID	UniProt ID
Human	823;	P07384;
Mouse		O35350;
Rat		P97571;

Cellular Localization Cytoplasm . Cell membrane . Translocates to the plasma membrane upon Ca(2+) binding. In granular keratinocytes and in lower corneocytes, colocalizes with FLG and FLG2 (PubMed:21531719). .

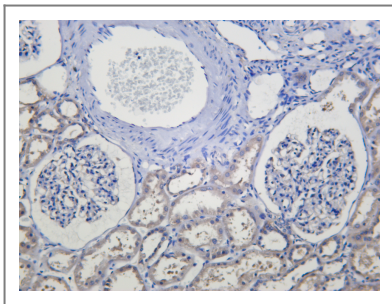
Tissue specificity Ubiquitous.

Function Catalytic activity:Broad endopeptidase specificity.,cofactor:Binds 3 calcium ions.,enzyme regulation:Activated by micromolar concentrations of calcium and inhibited by calpastatin.,Function:Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.,online information:Calpain,similarity:Belongs to the peptidase C2 family.,similarity:Contains 1 calpain catalytic domain.,similarity:Contains 4 EF-hand domains.,subcellular location:Translocates to the plasma membrane upon Ca(2+) binding.,subunit:Forms a heterodimer with a small (regulatory) subunit (CAPNS1),tissue specificity:Ubiquitous.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Calpain 1 (PT1874R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Rat brain Predicted band size: 82kDa Observed band size: 75kDa



Human kidney was stained with anti-Calpain 1 (PT1874R) PT™ Rabbit antibody

| Contact information

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Please scan the QR code to access additional product information:
Calpain 1 (PT1874R)
PT™ Rabbit mAb

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