

## Active Human Calpain 1 recombinant protein

Calpain  
Catalog # PBV10022r

### Specification

#### Active Human Calpain 1 recombinant protein - Product info

Primary Accession [P07384](#)  
Calculated MW **112.0 kDa KDa**

#### Active Human Calpain 1 recombinant protein - Additional Info

Gene ID **823**  
Gene Symbol **CAPN1**  
**Other Names**  
Calcium-activated neutral proteinase 2, Short name=CANP 2, Calpain M-type, Calpain large polypeptide L2, Calpain-2 large subunit, Millimolar-calpain, Short name=M-calpain

Gene Source **Human**  
Source **Human Erythrocyte**  
Assay&Purity **SDS-PAGE; ≥95%**  
Assay2&Purity2 **HPLC;**  
Recombinant **No**

**Target/Specificity**  
Calpain 1

**Format**  
Liquid

**Storage**  
-70°C; In 20 mM imidazole-HCl, 5 mM β-mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8.

#### Active Human Calpain 1 recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Active Human Calpain 1 recombinant protein - Background

Ca<sup>2+</sup>-dependent cysteine proteinase with low Ca<sup>2+</sup> requirement (half maximal activation = 2 μM). Participates in the ATP release reaction of platelets stimulated with thrombin. Involves in apoptosis activation.

#### Active Human Calpain 1 recombinant protein - References

Aoki K., et al. FEBS Lett. 205:313-317(1986).  
Sorimachi H., et al. Biol. Chem. Hoppe-Seyler 371:171-176(1990).  
Kim J.W., et al. Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.  
Melloni E., et al. Biochem. Biophys. Res. Commun. 229:193-197(1996).  
Michetti M., et al. FEBS Lett. 392:11-15(1996).