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Images



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Quantity:	r. 100 μg	
Target:	CAPNL1	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This CAPNL1 antibody is un-conjugated	
Application: ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM)		

Product Details

Immunogen:	Recombinant full-length human CAPN1 protein	
Clone:	CAPN1-1530	
Isotype:	IgG1 kappa	
Purification:	Purified by Protein A/G	

Target Details

Target:	CAPNL1
Alternative Name:	CAPN1 (CAPNL1 Products)
Background:	Calpain 1 is an intracellular calcium-dependent protease that cleaves cytoskeletal and sub-
	membranous proteins. Calpains are non-lysosomal, calcium-activated intracellular cysteine
	proteases. Calpains mediate specific Ca2+- dependent processes including cell fusion, mitosis
	and meiosis. Calpains are heterodimers of a small regulatory subunit and one of three large

catalytic subunits, designated Calpain 1, Calpain 2 and Calpain p94. Calpastatin regulates
Calpain by inhibiting both the proteolytic activity of Calpain and its binding to membranes.
Calpastatin exists in two types, tissue type and erythrocyte type, resulting from both alternative
splicing and proteolytic processing. Calpain 1 co-localizes with human leukocyte antigen-DR
(HLA-DR) on activated microglia in the aging brain. Calpain influences the process of
spermatogenesis and the events preceding fertilization, such as the acrosome reaction.

Molecular Weight:	80kDa
Gene ID:	823
UniProt:	P07384
Pathways:	Apoptosis

Application Details

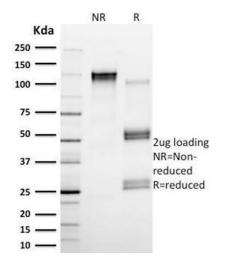
Application Notes: Positive Control: HeLa cells. Skin or Tonsil.

Known Application: ELISA (Use Ab at 2-4 μ g/mL for coating) (Order Ab without BSA), Immunohistochemistry (Formalin-fixed) (1-2 μ g/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

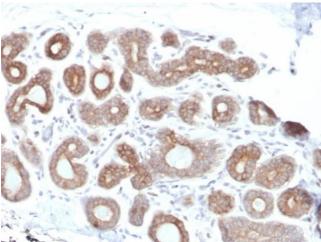
Handling

Concentration:	200 μg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



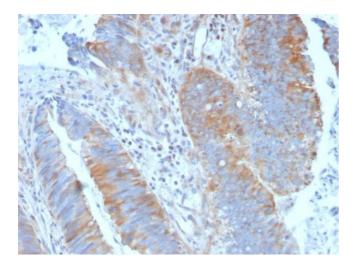
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530).