

Product Name: Calpain 9 Rabbit Polyclonal Antibody**Catalog #: APRab07868**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:10000
Molecular Weight	75kDa

Antigen Information

Gene Name	CAPN9
Alternative Names	CAPN9; NCL4; Calpain-9; Digestive tract-specific calpain; New calpain 4; nCL-4; Protein CG36
Gene ID	10753.0
SwissProt ID	O14815
Immunogen	The antiserum was produced against synthesized peptide derived from human CAPN9. AA range:481-530

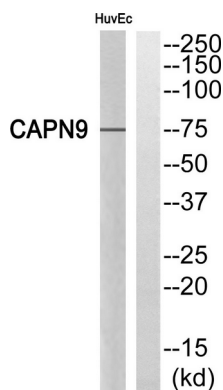
Background

Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are

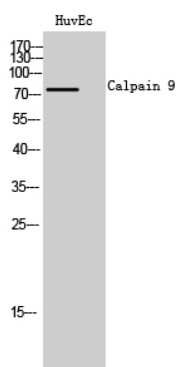
heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],catalytic activity:Broad endopeptidase specificity,,function:Calcium-regulated non-lysosomal thiol-protease,,induction:Down-regulated in gastric cancer tissue and in gastric cell lines of differentiated and poorly differentiated types,,similarity:Belongs to the peptidase C2 family,,similarity:Contains 1 calpain catalytic domain,,similarity:Contains 3 EF-hand domains,,tissue specificity:Expressed predominantly in stomach.,

Research Area

Image Data



Western blot analysis of CAPN9 Antibody. The lane on the right is blocked with the CAPN9 peptide.



Western Blot analysis of HuvEc cells using Calpain 9 Polyclonal Antibody