

Calpain 9 Polyclonal Antibody

Catalog No :	YT0617
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	Calpain 9
Gene Name :	CAPN9
Protein Name :	Calpain-9
Human Gene Id :	10753
Human Swiss Prot No :	O14815
Mouse Swiss Prot No :	Q9D805
Immunogen :	The antiserum was produced against synthesized peptide derived from human CAPN9. AA range:481-530
Specificity :	Calpain 9 Polyclonal Antibody detects endogenous levels of Calpain 9 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	75kD

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],

Function :

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.,

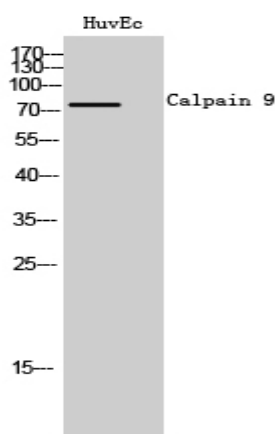
Subcellular Location :

intracellular,cytoplasm,

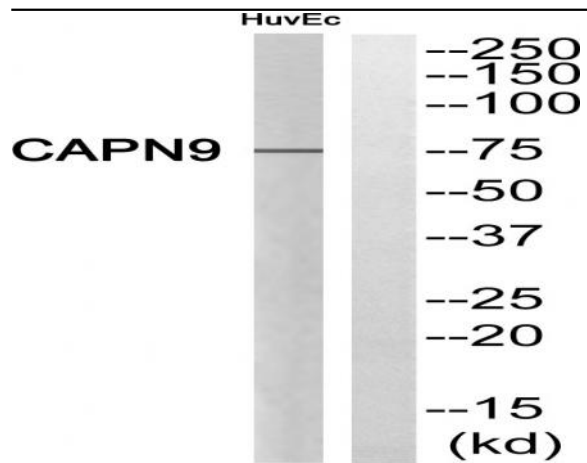
Expression :

Expressed predominantly in stomach.

Products Images



Western Blot analysis of HuvEc cells using Calpain 9 Polyclonal Antibody



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