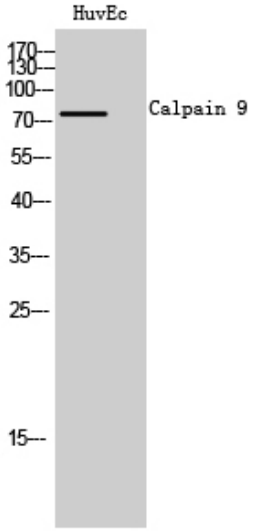
Calpain 9 Polyclonal Antibody

Catalog No	YP-Ab-02523
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	CAPN9
Protein Name	Calpain-9
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAPN9; NCL4; Calpain-9; Digestive tract-specific calpain; New calpain 4; nCL-4; Protein CG36
Observed Band	75kD
Cell Pathway	intracellular,cytoplasm,
Tissue Specificity	Expressed predominantly in stomach.
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.,
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

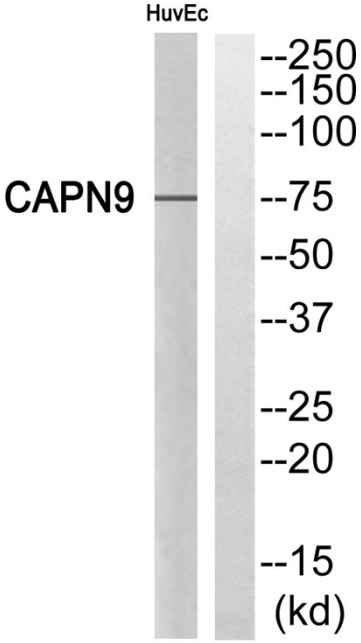
with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.