



# Calpain 9 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-02523
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	CAPN9
<b>Protein Name</b>	Calpain-9
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CAPN9. AA range:481-530
<b>Specificity</b>	Calpain 9 Monoclonal Antibody detects endogenous levels of Calpain 9 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CAPN9; NCL4; Calpain-9; Digestive tract-specific calpain; New calpain 4; nCL-4; Protein CG36
<b>Observed Band</b>	75kD
<b>Cell Pathway</b>	intracellular,cytoplasm,
<b>Tissue Specificity</b>	Expressed predominantly in stomach.
<b>Function</b>	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.,
<b>Background</b>	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],

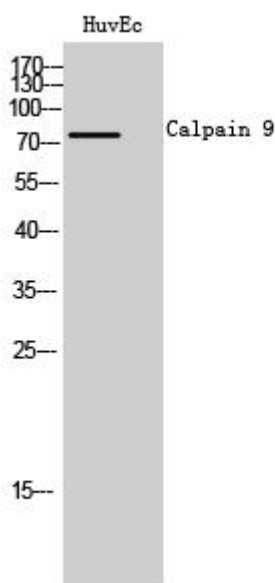
**matters needing attention**

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 various cells using Calpain 9 Monoclonal Antibody