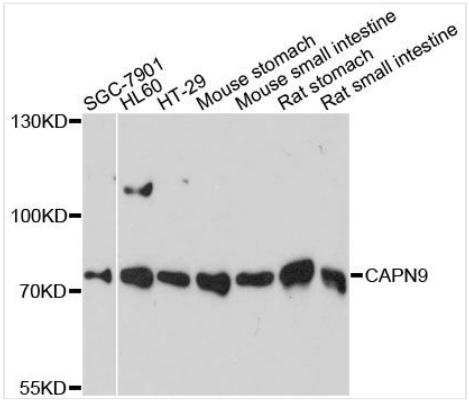
CAPN9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPN9, Polyclonal Antibody
Full Product Name	CAPN9 Polyclonal Antibody
Product Gene Name	anti-CAPN9 antibody
Product Synonym Names	GC36; nCL-4
Immunogen Sequence	QEECSFLVAL MQKDRRKLKR FGANVLTIGY AIYECPDKDE HLNKDFFRYH ASRARSKTFI NLREVSDRFK LPPGEYILIP STFEPHQEAD FCLRIFSEKK AITRDMDGNV DIDLPEPPKP TPPDQETEEE QRFRALFEQV AGEDMEVTAE ELEYVLNAVL QKKKDIKFKK LSLISCKNII SLMDTSGNGK LEFDEFKVFW DKLKQWINLF LRFDADKSGT MSTYELRTAL KAAGFQLSSH LLQLIVLRYA DEELQ
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated: 76kDa; 79kDa Observed: 79kDa
OMIM	AF022799 mRNA
3D Structure	ModBase 3D Structure for O14815
Immunogen	Recombinant protein of human CAPN9
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Positive Samples	SGC-7901, HL60, HT-29, Mouse stomach, Mouse small intestine, Rat stomach, Rat small intestine
Product Categories/Family for anti-CAPN9 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CAPN9 antibody	Western Blot (WB)
Application Notes for anti-CAPN9 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-CAPN9 antibody	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.

Other Notes	Small volumes of anti-CAPN9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CAPN9 purchase	MBS9133802 is an antibody targeting CAPN9. Also known as CAPN9 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CAPN9 antibody
Western blot analysis of extracts of various cell lines, using CAPN9 antibody at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPN9. It may not necessarily be applicable to this product.

NCBI GI #	985567541
NCBI GeneID	10753
NCBI Accession #	NP_001306605.1
UniProt Primary Accession #	O14815
UniProt Secondary Accession #	Q9NS74; B1APS1; B1AQI0
UniProt Related Accession #	O14815
GenBank Nucleotide #	NM_001319676.1
NCBI Official Full Name	calpain-9 isoform 3
NCBI Official Synonym Full Names	calpain 9
NCBI Official Symbol	CAPN9
NCBI Official Synonym Symbols	GC36; nCL-4
UniProt Protein Name	Calpain-9
UniProt Synonym Protein Names	Digestive tract-specific calpain; New calpain 4; nCL-4; Protein CG36
Protein Family	Calpain
UniProt Gene Name	CAPN9
UniProt Synonym Gene Names	NCL4; nCL-4
NCBI Protein Information	calpain-9
UniProt Comments for CAPN9	Calcium-regulated non-lysosomal thiol-protease.
Research Articles on CAPN9	**1.** calpain-9 may play a role in breast cancer and that low expression is associated with poorer patient clinical outcome following endocrine therapy.

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