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Product datasheet for CF503774

Calpain 9 (CAPN9) Mouse Monoclonal Antibody [Clone ID: OTI2G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2G1
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CAPN9(NP_006606) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	78.9 kDa
Gene Name:	calpain 9
Database Link:	NP_006606 Entrez Gene 116694 RatEntrez Gene 10753 Human O14815

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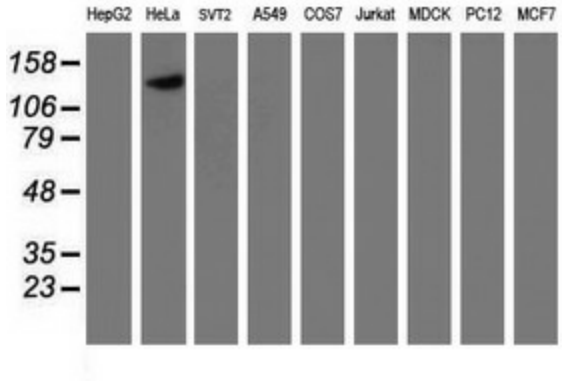
Background: Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding 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]

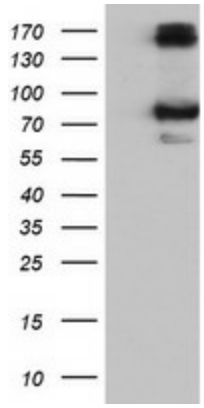
Synonyms: GC36; nCL-4

Protein Families: Druggable Genome, Protease

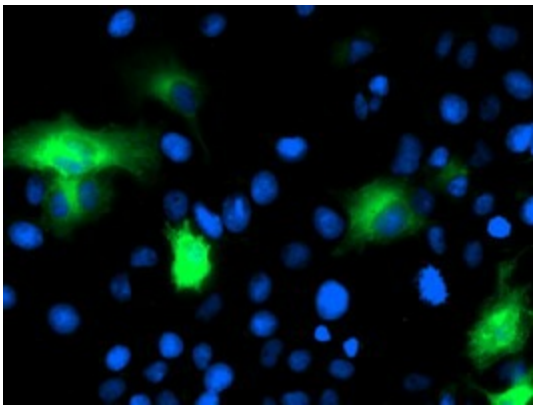
Product images:



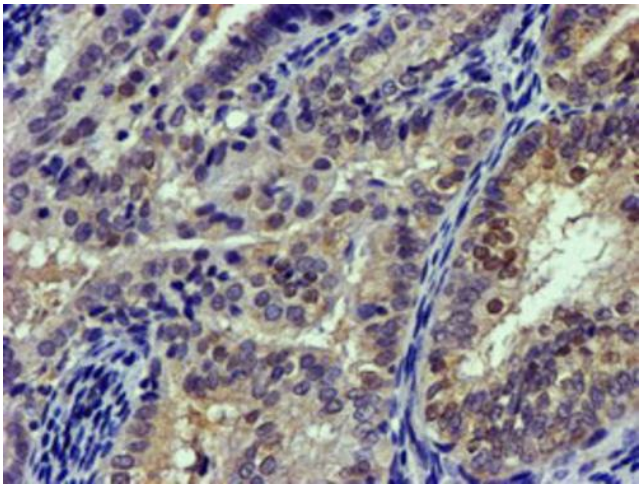
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CAPN9 monoclonal antibody.



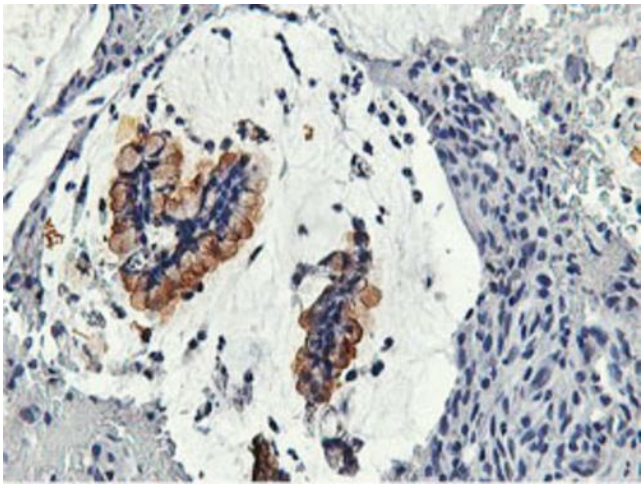
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CAPN9 (Cat# [RC215171], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CAPN9 (Cat# [TA503774]). Positive lysates [LY401979] (100ug) and [LC401979] (20ug) can be purchased separately from OriGene.



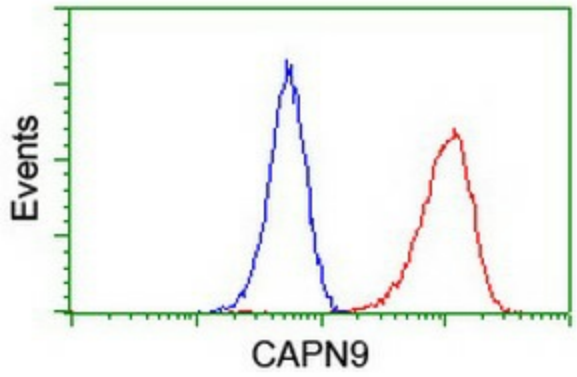
Anti-CAPN9 mouse monoclonal antibody ([TA503774]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CAPN9 ([RC215171]).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-CAPN9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503774])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-CAPN9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503774])



Flow cytometric Analysis of Jurkat cells, using anti-CAPN9 antibody ([TA503774]), (Red), compared to a nonspecific negative control antibody, (Blue).