10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAPN6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12546c

Specification

CAPN6 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y6Q1
Other Accession	O88501, O35646, NP_055104.2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**74576**
Antigen Region	**390-419**

CAPN6 Antibody (Center) - Additional Information

Gene ID 827

Other Names
Calpain-6, Calpain-like protease X-linked, Calpamodulin, CalpM, CAPN6, CALPM, CANPX

Target/Specificity
This CAPN6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 390-419 amino acids from the Central region of human CAPN6.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CAPN6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CAPN6 Antibody (Center) - Protein Information

Name CAPN6

Synonyms CALPM, CANPX

Function Microtubule-stabilizing protein that may be involved in the regulation of microtubule dynamics and cytoskeletal organization. May act as a regulator of RAC1 activity through interaction with ARHGEF2 to control lamellipodial formation and cell mobility. Does not seem to have protease activity as it has lost the active site residues (By similarity).

Cellular Location
Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton, spindle. Note=During mitose associated with the mitotic spindle. At telophase colocalized to the midbody spindle

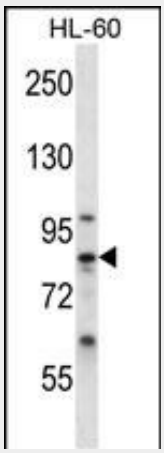
Tissue Location
Expressed only in placenta.

CAPN6 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CAPN6 Antibody (Center) - Images



CAPN6 Antibody (Center) (Cat. #AP12546c) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the CAPN6 antibody detected the CAPN6 protein (arrow).

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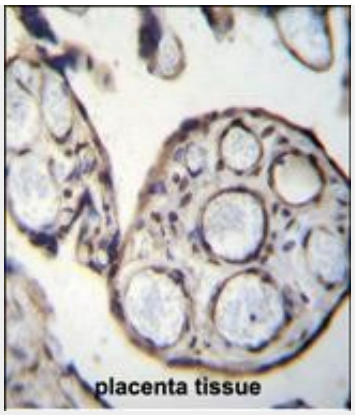

CAPN6 Antibody (Center) (Cat. #AP12546c)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CAPN6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CAPN6 Antibody (Center) - 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 highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis.

CAPN6 Antibody (Center) - References

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Secolin, R., et al. Psychiatr. Genet. 20(3):126-129(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Rho, S.B., et al. Cancer Lett. 271(2):306-313(2008)
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