

Product datasheet for **TA323500S**

CAPNS1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: K562 and NIH/3T3 cells IHC: 50-200 Positive control: Human ovarian cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 91-268 amino acids of human calpain, small subunit 1
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28 kDa
Gene Name:	calpain small subunit 1
Database Link:	NP_001003962 Entrez Gene 12336 Mouse Entrez Gene 29156 Rat Entrez Gene 826 Human P04632



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Background:

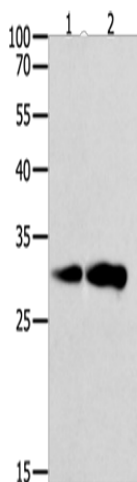
Calpains are a ubiquitous; well-conserved family of calcium-dependent; cysteine proteases. Calpain families have been implicated in neurodegenerative processes; as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits; all of which are encoded by different genes. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene.

Synonyms:

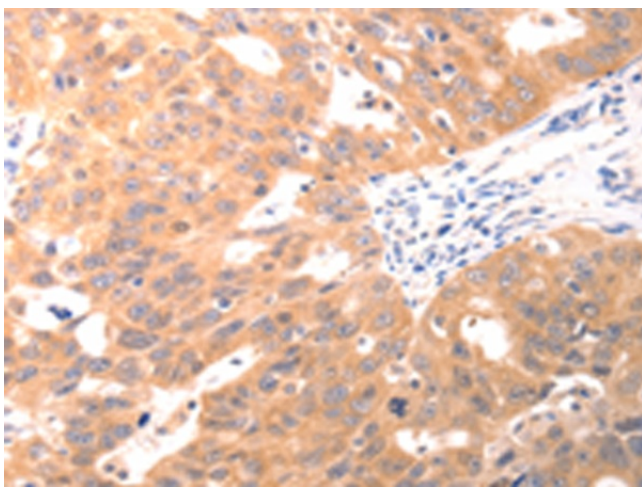
CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1

Protein Families:

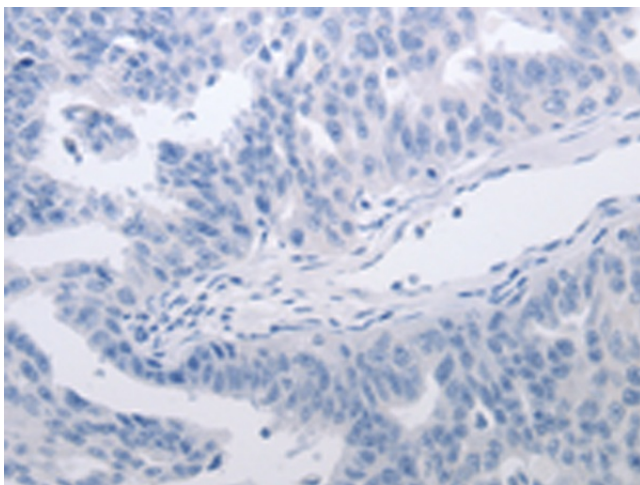
Druggable Genome, Protease

Product images:

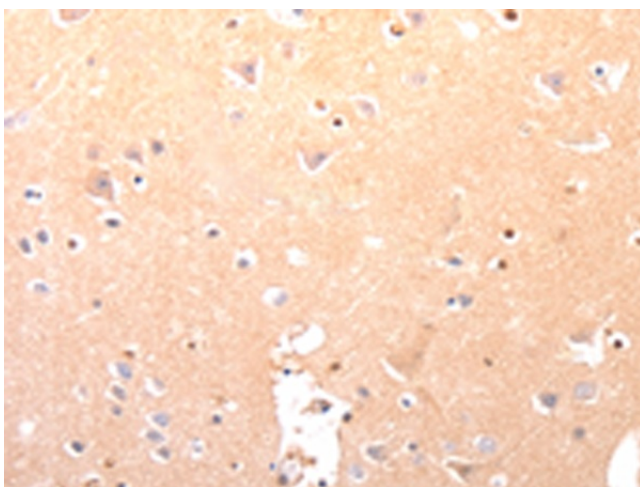
Gel: 12%SDS-PAGE
Lysate: 60 μ g
Lane 1-2: K562 cells
NIH/3T3 cells
Primary antibody: [TA323500] (CAPNS1 Antibody)
at dilution 1/800
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 15 seconds



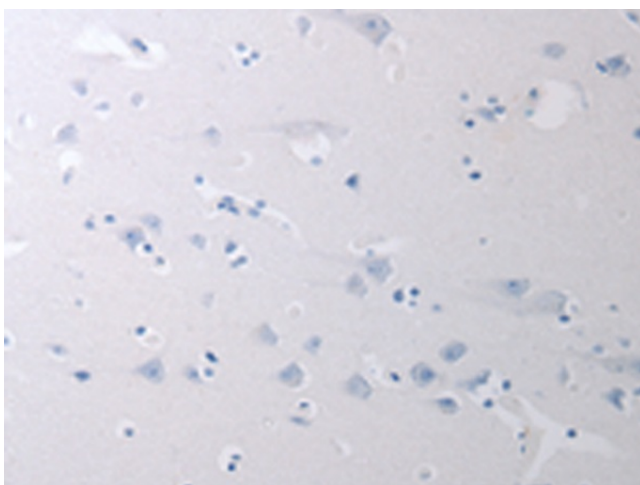
Immunohistochemistry of paraffin-embedded
Human ovarian cancer tissue using [TA323500]
(CAPNS1 Antibody) at dilution 1/60 (Original
magnification: \times 200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA323500] (CAPNS1 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323500] (CAPNS1 Antibody) at dilution 1/60 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323500] (CAPNS1 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification: $\times 200$)