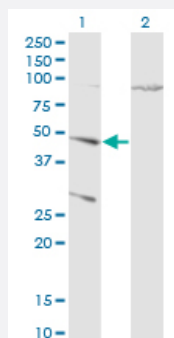


CTSD monoclonal antibody (M01), clone 3F12-1B9

Catalog # H00001509-M01

Size 100 ug

Applications

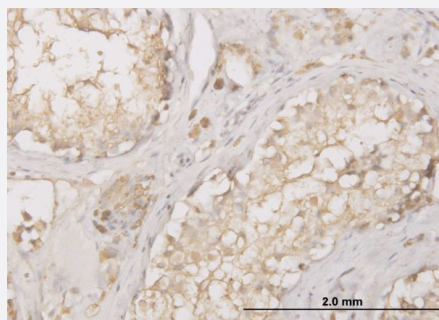


Western Blot (Transfected lysate)

Western Blot analysis of CTSD expression in transfected 293T cell line by CTSD monoclonal antibody (M01), clone 3F12-1B9.

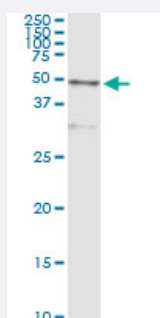
Lane 1: CTSD transfected lysate (Predicted MW: 44.6 kDa).

Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CTSD on formalin-fixed paraffin-embedded human testis. [antibody concentration 1.5 ug/ml]

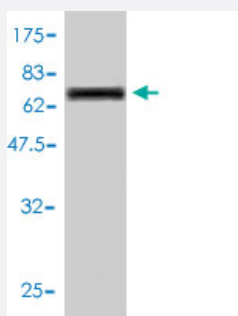
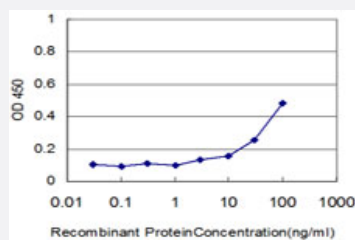


Immunoprecipitation

Immunoprecipitation of CTSD transfected lysate using anti-CTSD monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CTSD MaxPab rabbit polyclonal antibody.

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CTSD is approximately 3ng/ml as a capture antibody.



Western Blot detection against Immunogen (71.06 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant CTSD.
Immunogen	CTSD (AAH16320, 26 a.a. ~ 412 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYMDAQYYGEIGITPPQCF TVVFDTGSSNLWVPSIHCKLLDIACWIIHHKYNSDKSSTYVKNGTSTFDIHYGSGSLSGYLSQDTVSV PCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLV DQNIJSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTWKAYWQVHLDQVEVASGLTLCKE GCEAMDTGTSLMVGVPDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAITLKLGGKGYKLSPEYDT LKVSQAGKTLCLSGFMGMDIPPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAEAARL
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (71.06 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of CTSD expression in transfected 293T cell line by CTSD monoclonal antibody (M01), clone 3F12-1B9.

Lane 1: CTSD transfected lysate (Predicted MW: 44.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CTSD on formalin-fixed paraffin-embedded human testis. [antibody concentration 1.5 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of CTSD transfected lysate using anti-CTSD monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CTSD MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CTSD is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CTSD

Entrez GeneID	1509
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GeneBank Accession#	BC016320
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Protein Accession#	AAH16320
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Gene Name	CTSD
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Gene Alias	CLN10, CPSD, MGC2311
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Gene Description	cathepsin D
Omim ID	116840 610127
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. [provided by RefSeq]
Other Designations	lysosomal aspartyl peptidase lysosomal aspartyl protease

Publication Reference

- [Characterization of the Human Gastric Fluid Proteome Reveals Distinct pH-Dependent Protein Profiles: Implications for Biomarker Studies.](#)

Kam SY, Hennessy T, Chua SC, Gan CS, Philp R, Hon KK, Lai L, Chan WH, Ong HS, Wong WK, Lim KH, Ling KL, Tan HS, Tan MM, Ho M, Kon OL.

Journal of Proteome Research 2011 Oct; 10(10):4535.

Application: WB, Human, Human gastric fluids

Pathway

- [Lysosome](#)

Disease

- [Alzheimer disease](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Creutzfeldt-Jakob Syndrome](#)

- [Dementia](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
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