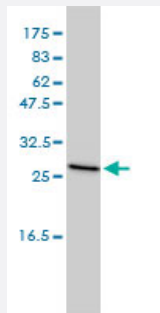


CLTB monoclonal antibody (M01), clone 4B12-1E3

Catalog # H00001212-M01

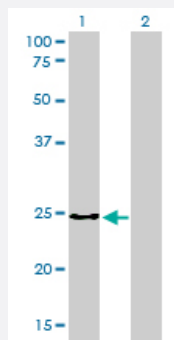
Size 100 ug

Applications



Western Blot (Cell lysate)

CLTB monoclonal antibody (M01), clone 4B12-1E3 Western Blot analysis of CLTB expression in MCF-7 (Cat # L046V1).

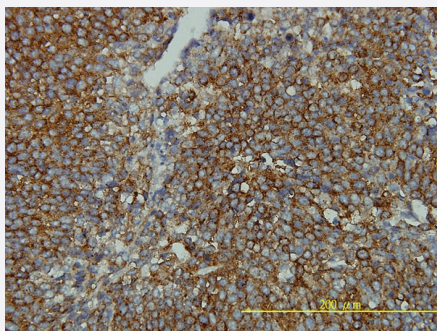


Western Blot (Transfected lysate)

Western Blot analysis of CLTB expression in transfected 293T cell line by CLTB monoclonal antibody (M01), clone 4B12-1E3.

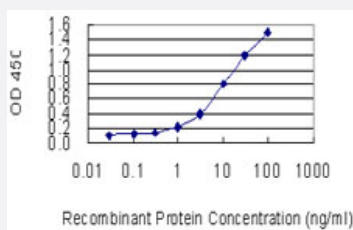
Lane 1: CLTB transfected lysate(23.2 KDa).

Lane 2: Non-transfected lysate.



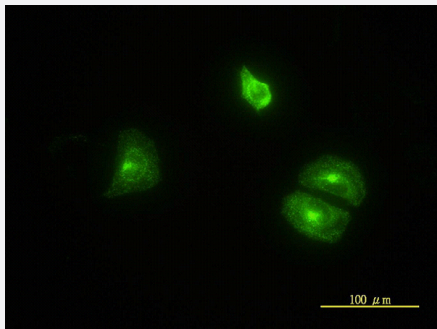
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CLTB on formalin-fixed paraffin-embedded human transitional cell carcinoma tissue. [antibody concentration 2 ug/ml]



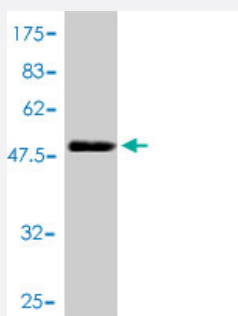
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CLTB is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to CLTB on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (48.95 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant CLTB.
Immunogen	CLTB (AAH06457, 1 a.a. ~ 211 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MADDFGFFSSSESGAPEAAEEDPAAAFQAQQESEIAGIENDEGFGAPAGSHAAPAQPGPTSGA GSEDMGTTVNGDVFQEANGPADGYAAIAQADRLTQEPESIRKWREEQRKRLQELDAASKVTEQ EWREKAKKDLEEWNQRQSEQVEKNKINNRAEEAFVKESKEETPGTEWEKVAQLCDFNPKSS KQCKDVSRLRSVLSLQKTPLSR
Host	Mouse
Reactivity	Human
Isotype	IgG2b kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (48.95 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 (Cell lysate)

CLTB monoclonal antibody (M01), clone 4B12-1E3 Western Blot analysis of CLTB expression in MCF-7 (Cat # L046V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of CLTB expression in transfected 293T cell line by CLTB monoclonal antibody (M01), clone 4B12-1E3.

Lane 1: CLTB transfected lysate(23.2 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

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[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CLTB is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to CLTB on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — CLTB

Entrez GeneID [1212](#)

GeneBank Accession# [BC006457](#)

Protein Accession# [AAH06457](#)

Gene Name	CLTB
Gene Alias	LCB
Gene Description	clathrin, light chain (Lcb)
Omim ID	118970
Gene Ontology	Hyperlink
Gene Summary	Clathrin is a large, soluble protein composed of heavy and light chains. It functions as the main structural component of the lattice-type cytoplasmic face of coated pits and vesicles which entrap specific macromolecules during receptor-mediated endocytosis. This gene encodes one of two clathrin light chain proteins which are believed to function as regulatory elements. Alternative splicing results in multiple transcript variants. [provided by RefSeq]
Other Designations	clathrin, light polypeptide clathrin, light polypeptide (Lcb)

Publication Reference

- [A conformational switch in clathrin light chain regulates lattice structure and endocytosis at the plasma membrane of mammalian cells.](#)

Kazuki Obashi , Kem A Sochacki , Marie-Paule Strub , Justin W Taraska.

Nature Communications 2023 Feb; 14(1):732.

Application: WB-Ce, Human, HeLa cells

- [Crosstalk between CLCb/Dyn1-Mediated Adaptive Clathrin-Mediated Endocytosis and Epidermal Growth Factor Receptor Signaling Increases Metastasis.](#)

Chen PH, Bendris N, Hsiao YJ, Reis CR, Mettlen M, Chen HY, Yu SL, Schmid SL.

Developmental Cell 2017 Feb; 40(3):278.

Application: IHC-P, Human, Human lung cancer

Pathway

- [Endocytosis](#)
- [Lysosome](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)