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

CPSF3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CPSF3.
Catalog # AT1610a

Specification

CPSF3 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	Q9UKF6
Other Accession	NM_016207
Reactivity	**Human, Mouse, Rat**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**77486**

CPSF3 Antibody (monoclonal) (M01) - Additional Information

Gene ID 51692

Other Names
Cleavage and polyadenylation specificity factor subunit 3, 3127-, Cleavage and polyadenylation specificity factor 73 kDa subunit, CPSF 73 kDa subunit, mRNA 3'-end-processing endonuclease CPSF-73, CPSF3, CPSF73

Target/Specificity
CPSF3 (NP_057291, 585 a.a. ~ 684 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
CPSF3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

CPSF3 Antibody (monoclonal) (M01) - Protocols

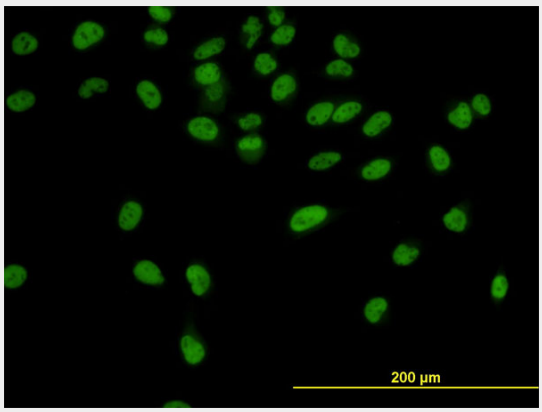
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

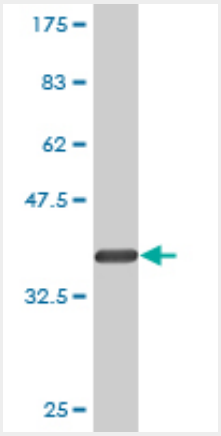
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

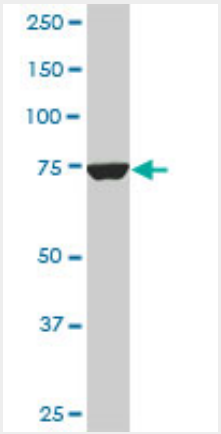
CPSF3 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to CPSF3 on HeLa cell. [antibody concentration 10 ug/ml]

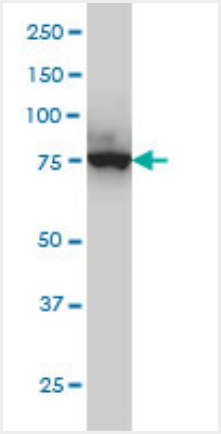


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

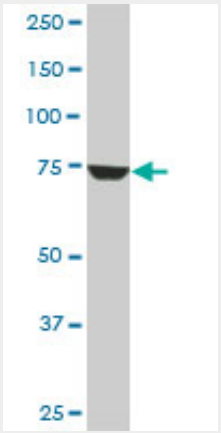


10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

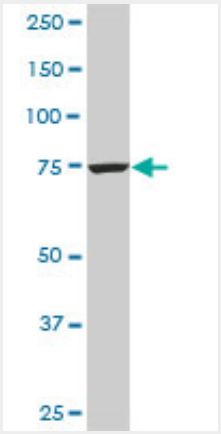
CPSF3 monoclonal antibody (M01), clone 6E6. Western Blot analysis of CPSF3 expression in PC-12((Cat # AT1610a)



CPSF3 monoclonal antibody (M01), clone 6E6 Western Blot analysis of CPSF3 expression in Hela S3 NE ((Cat # AT1610a)

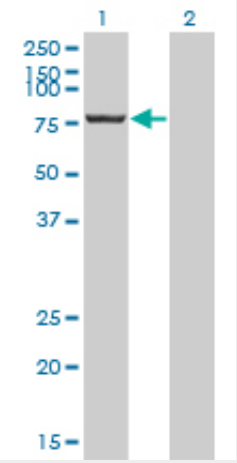


CPSF3 monoclonal antibody (M01), clone 6E6. Western Blot analysis of CPSF3 expression in Raw 264.7((Cat # AT1610a)



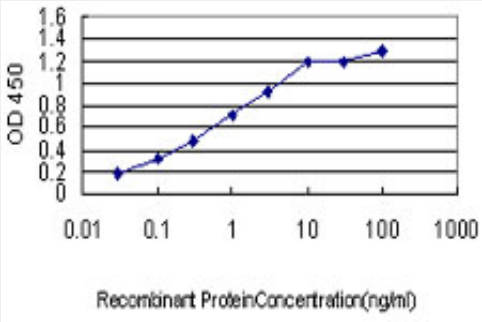
CPSF3 monoclonal antibody (M01), clone 6E6. Western Blot analysis of CPSF3 expression in NIH/3T3((Cat # AT1610a)

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



Western Blot analysis of CPSF3 expression in transfected 293T cell line by CPSF3 monoclonal antibody (M01), clone 6E6.

Lane 1: CPSF3 transfected lysate(77.5 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CPSF3 is approximately 0.1ng/ml as a capture antibody.

CPSF3 Antibody (monoclonal) (M01) - Background

Most eukaryotic mRNA precursors (pre-mRNAs) undergo extensive maturational processing, including cleavage and polyadenylation at the 3-prime end. CPSF3 encodes the 73-kD subunit of the cleavage and polyadenylation specificity factor (CPSF) and is the pre-mRNA 3-prime-end-processing endonuclease (Mandel et al., 2006 [PubMed 17128255]).

CPSF3 Antibody (monoclonal) (M01) - References

The tumor suppressor Cdc73 functionally associates with CPSF and CstF 3' mRNA processing factors. Rozenblatt-Rosen O, et al. Proc Natl Acad Sci U S A, 2009 Jan 20. PMID 19136632.Studies of the 5' exonuclease and endonuclease activities of CPSF-73 in histone pre-mRNA processing. Yang XC, et al. Mol Cell Biol, 2009 Jan. PMID 18955505.CSR1 induces cell death through inactivation of CPSF3. Zhu ZH, et al. Oncogene, 2009 Jan 8. PMID 18806823.Conserved motifs in both CPSF73 and CPSF100 are required to assemble the active endonuclease for histone mRNA 3'-end maturation. Kolev NG, et al. EMBO Rep, 2008 Oct. PMID 18688255.The 73 kDa subunit of the CPSF complex binds to the HIV-1 LTR promoter and functions as a negative regulatory factor that is inhibited by the HIV-1 Tat protein. de la Vega L, et al. J Mol Biol, 2007 Sep 14. PMID 17669424.

CPSF3 Antibody (monoclonal) (M01) - Citations

- CPSF3-dependent pre-mRNA processing as a druggable node in AML and Ewing's sarcoma

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