10320 Camino Santa Fe, Suite G
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CSE1L Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant CSE1L.

Catalog # AT1654a

Specification

CSE1L Antibody (monoclonal) (M05) - Product Information

Application	**WB, IHC, IF, E**
Primary Accession	P55060
Other Accession	NM_001316
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**110417**

CSE1L Antibody (monoclonal) (M05) - Additional Information

Gene ID 1434

Other Names
Exportin-2, Exp2, Cellular apoptosis susceptibility protein, Chromosome segregation 1-like protein, Importin-alpha re-exporter, CSE1L, CAS, XPO2

Target/Specificity
CSE1L (NP_001307, 872 a.a. ~ 971 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
IHC~~1:100~500
IF~~1:50~200
E~~N/A

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
CSE1L Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

CSE1L Antibody (monoclonal) (M05) - Protocols

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

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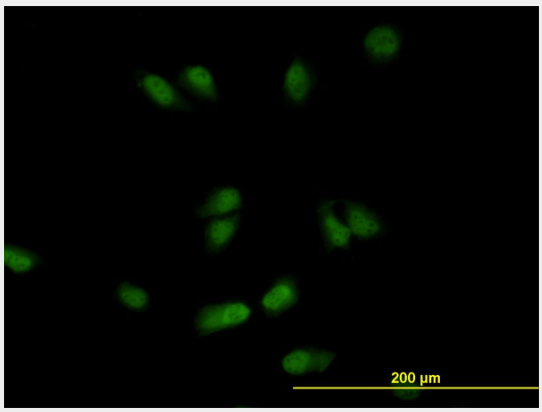
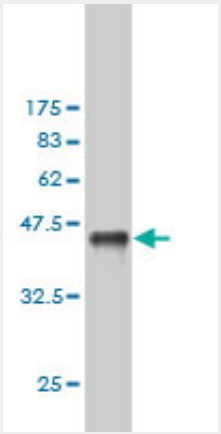
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CSE1L Antibody (monoclonal) (M05) - Images



Immunofluorescence of monoclonal antibody to CSE1L on HeLa cell. [antibody concentration 10 ug/ml]



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

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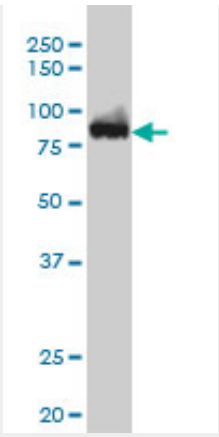
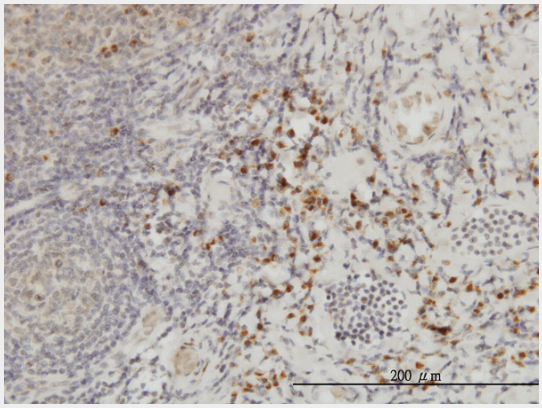
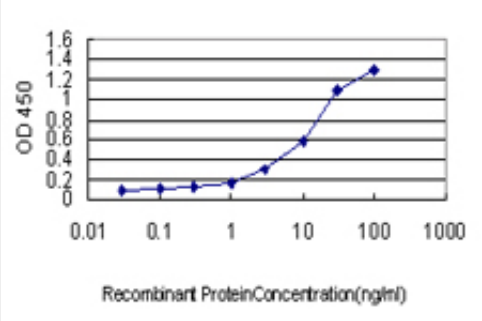


CSE1L monoclonal antibody (M05), clone 3F8 Western Blot analysis of CSE1L expression in K-562 ((Cat # AT1654a)



Immunoperoxidase of monoclonal antibody to CSE1L on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CSE1L is approximately 0.1ng/ml as a capture antibody.

CSE1L Antibody (monoclonal) (M05) - Background

Proteins that carry a nuclear localization signal (NLS) are transported into the nucleus by the importin-alpha/beta heterodimer. Importin-alpha binds the NLS, while importin-beta mediates translocation through the nuclear pore complex. After translocation, RanGTP binds importin-beta and displaces importin-alpha. Importin-alpha must then be returned to the cytoplasm, leaving the NLS protein behind. The protein encoded by this gene binds strongly to NLS-free importin-alpha, and this binding is released in the cytoplasm by the combined action of RANBP1 and RANGAP1. In addition, the encoded protein may play a role both in apoptosis and in cell proliferation.

CSE1L Antibody (monoclonal) (M05) - References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Function of CSE1L/CAS in the secretion of HT-29 human colorectal cells and its expression in human colon. Tsao TY, et al. Mol Cell Biochem, 2009 Jul. PMID 19224336.PHAPI, CAS, and Hsp70 promote apoptosome formation by preventing Apaf-1 aggregation and enhancing nucleotide exchange on Apaf-1. Kim HE, et al. Mol Cell, 2008 Apr 25. PMID 18439902.Dissection of the molecular mechanisms that control the nuclear accumulation of transport factors importin-alpha and CAS in stressed cells. Kodiha M, et al. Cell Mol Life Sci, 2008 Jun. PMID 18425415.CSE1L/CAS, a microtubule-associated protein, inhibits taxol (paclitaxel)-induced apoptosis but enhances cancer cell apoptosis induced by various chemotherapeutic drugs. Liao CF, et al. BMB Rep, 2008 Mar 31. PMID 18377724.