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

EIF5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant EIF5.
Catalog # AT1885a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P55010
Other Accession	BC032866
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2E6-4C12
Calculated MW	49223

Additional Information

Gene ID	1983
Other Names	Eukaryotic translation initiation factor 5, eIF-5, EIF5
Target/Specificity	EIF5 (AAH32866, 1 a.a. ~ 431 a.a) full-length 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	EIF5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

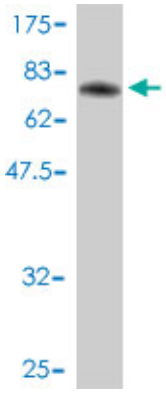
Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations (summary by Si et al., 1996 [PubMed 8663286]).

References

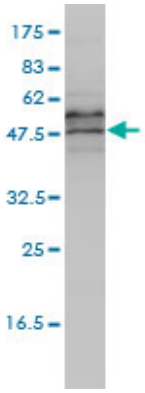
Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.The crystal structure of the carboxy-terminal domain of human translation initiation factor eIF5. Bieniossek C, et al. J Mol Biol, 2006 Jul 7. PMID 16781736.Structure of the eukaryotic initiation

factor (eIF) 5 reveals a fold common to several translation factors. Conte MR, et al. Biochemistry, 2006 Apr 11. PMID 16584190.CK2 phosphorylation of eukaryotic translation initiation factor 5 potentiates cell cycle progression. Homma MK, et al. Proc Natl Acad Sci U S A, 2005 Oct 25. PMID 16227438.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

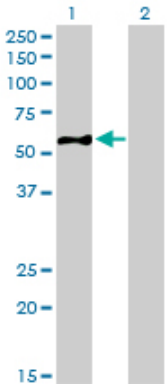
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (73.15 KDa) .

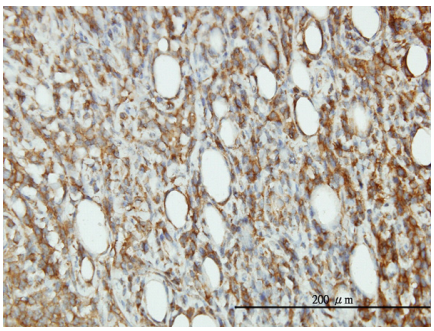


EIF5 monoclonal antibody (M01), clone 2E6-4C12 Western Blot analysis of EIF5 expression in Jurkat ((Cat # AT1885a)



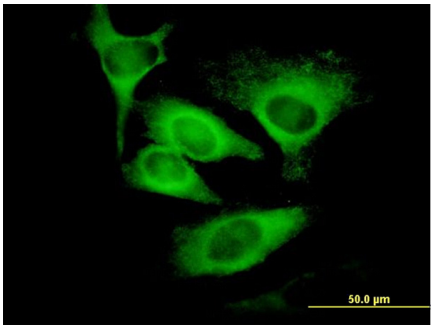
Western Blot analysis of EIF5 expression in transfected 293T cell line by EIF5 monoclonal antibody (M01), clone 2E6-4C12.

Lane 1: EIF5 transfected lysate(49.2 KDa).
Lane 2: Non-transfected lysate.

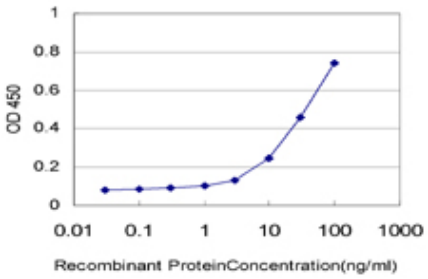


Immunoperoxidase of monoclonal antibody to EIF5 on formalin-fixed paraffin-embedded human malignant lymphoma, diffuse large B tissue. [antibody concentration 1 ug/ml]

Immunofluorescence of monoclonal antibody to EIF5 on



HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged EIF5 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.