Datasheet for ABIN1679692

anti-EIF3A antibody (AA 1-250)

2 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	EIF3A
Binding Specificity:	AA 1-250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human EIF3A (NP_003741.1).
Sequence:	MPAYFQRPEN ALKRANEFLE VGKKQPALDV LYDVMKSKKH RTWQKIHEPI MLKYLELCVD LRKSHLAKEG LYQYKNICQQ VNIKSLEDVV RAYLKMAEEK TEAAKEESQQ MVLDIEDLDN IQTPESVLLS AVSGEDTQDR TDRLLLTPWV KFLWESYRQC LDLLRNNSRV ERLYHDIAQQ AFKFCLQYTR KAEFRKLCDN LRMHLSQIQR HHNQSTAINL NNPESQSMHL ETRLVQLDSA ISMELWQEAF
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	EIF3A
Alternative Name:	EIF3A (EIF3A Products)
Background:	RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632, PubMed:11169732). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773, PubMed:27462815).,EIF3A,EIF3,EIF3S10,P167,TIF32,eIF3-p170,eIF3-theta,p180,p185,Epigenetics & Nuclear Signaling,RNA Binding,Translation Control,EIF3A
Molecular Weight:	162 kDa/166 kDa
Gene ID:	8661
UniProt:	Q14152
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	WB,1:500 - 1:1000,IF,1:50 - 1:100
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

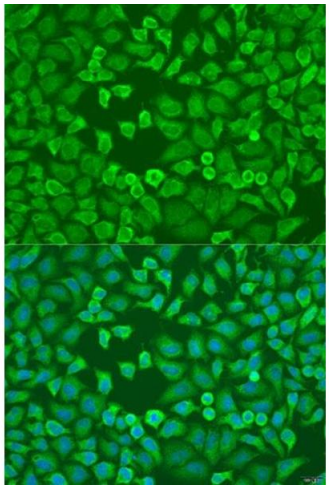
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

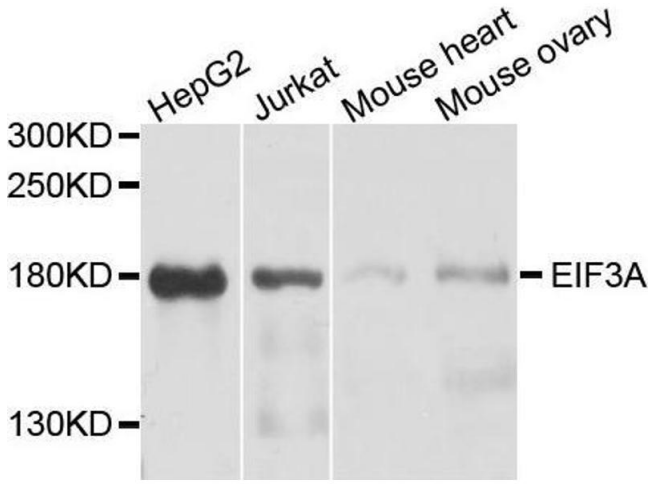
Product cited in:	Wang, Zheng, Zhang, Zhao, Wang, Wang, Shang, Barasch, Qiu: "Physiological functions of ferroportin in the regulation of renal iron recycling and ischemic acute kidney injury." in: **American journal of physiology. Renal physiology**, Vol. 315, Issue 4, pp. F1042-F1057, (2018) (PubMed).

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using EIF3A antibody (ABIN1679692, ABIN3015224, ABIN3015226 and ABIN6213890) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of A2058 cell line, using EIF3A antibody.