

ARG55572 anti-eIF4E antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes eIF4E
Tested Reactivity	Hu, Ms
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	163CT48.1.9
Isotype	IgG1, kappa
Target Name	eIF4E
Species	Human
Immunogen	Recombinant protein of Human eIF4E.
Conjugation	Un-conjugated
Alternate Names	EIF4E1; EIF4EL1; Eukaryotic translation initiation factor 4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; CBP; eIF-4E; eIF4E; AUTS19; EIF4F

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	

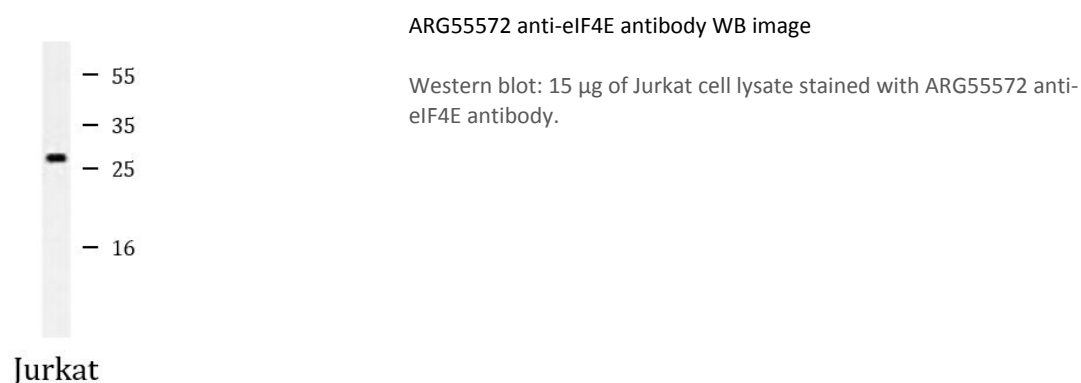
Properties

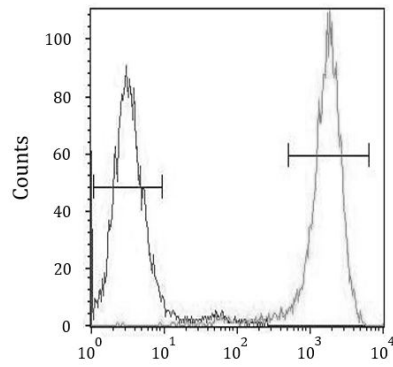
Form	Liquid
Buffer	Crude Ascites and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 13684 Mouse GeneID: 1977 Human Swiss-port # P06730 Human Swiss-port # P63073 Mouse
Gene Symbol	EIF4E
Gene Full Name	eukaryotic translation initiation factor 4E
Background	The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Function	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	25 kDa
PTM	Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.
Cellular Localization	Cytoplasm, P-body. Cytoplasm

Images





ARG55572 anti-eIF4E antibody FACS image

Flow Cytometry: Jurkat cells stained with ARG55572 anti-eIF4E antibody (right histogram) or without primary antibody as control (left histogram), followed by incubation with FITC labelled secondary antibody.