Technical Data Sheet

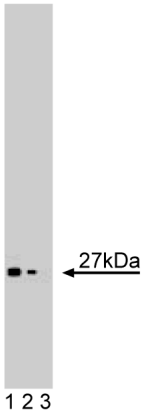
Purified Mouse Anti- eIF-6

Product Information

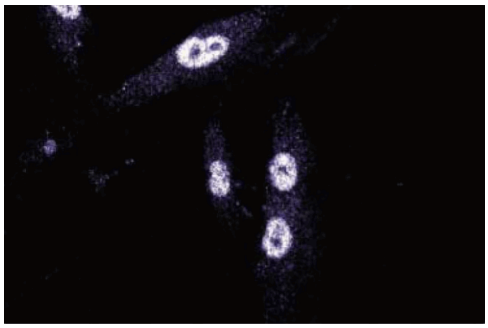
Material Number:	**611120**
Alternate Name:	Eukaryotic Initiation Factor-6
Size:	50 µg
Concentration:	250 µg/ml
Clone:	23/eIF-6
Immunogen:	Human eIF-6 aa. 17-128
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog
Target MW:	27 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Initiation of eukaryotic translation involves a series of reactions mediated by multiple eukaryotic initiation factors (eIFs). As a prerequisite to initiation, the initiator methionyl-tRNA (Met-tRNAf), in a ternary complex with eIF-2 and GTP, binds to the 40S ribosomal subunit. This 40S preinitiation complex is positioned at the initiation AUG codon to form the 40S initiation complex. This complex is joined by the 60S ribosomal subunit to form the 80S initiation complex, which functions as a peptidyl transferase. Once translation is completed, the polysomal complex is dismantled with the formation of the free 40S and 60S subunits. eIF-6 is a monomeric protein which binds to the 60S ribosomal subunit and blocks its association with the 40S subunit. The human eIF-6 is expressed in a wide range of tissues and exhibits a significant homology with sequences from *S. cerevisiae* and *Drosophila*. The joining of the 60S subunit to the 40S initiation complex requires eIF-5; thus, eIF-5 & -6 may maintain equilibrium between the individual subunits and the 80S complex.



Western blot analysis of eIF-6 on a Jurkat cell lysate (Human T-cell leukemia; ATCC TIB-152). *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- eIF-6 antibody.*



Immunofluorescence staining of WI-38 cells (Human lung fibroblasts; ATCC CCL-75).

Preparation and Storage

Store undiluted at -20° C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **www.bdbiosciences.com/how_to_order/**

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Si K, Chaudhuri J, Chevesich J, Maitra U. Molecular cloning and functional expression of a human cDNA encoding translation initiation factor 6. *Proc Natl Acad Sci U S A.* 1997; 94(26):14285-14290.(Biology)