Technical Data Sheet

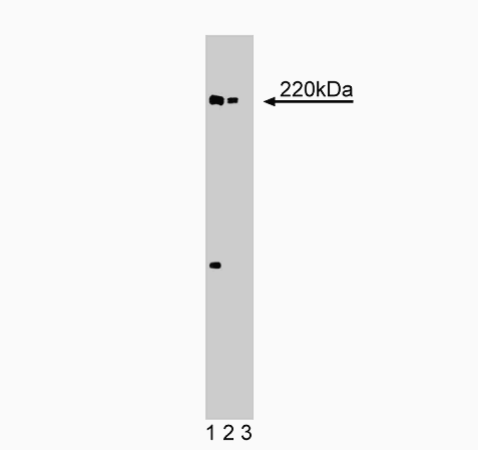
Purified Mouse Anti-eIF-4γ

Product Information

Material Number:	**610536**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	40/eIF-4γ
Immunogen:	Human eIF-4γ aa. 1217-1386
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog
Target MW:	220 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

eIF-4 proteins are required for mRNA recognition and acceleration of translation during protein synthesis. This group of proteins consists of the RNA helicase, eIF-4A; the RNA-binding protein, eIF-4B; and the cap binding proteins, eIF-4E and eIF-4γ. eIF-4γ, also referred to as p220, is a 1396 amino acid polypeptide that migrates as a 220kDa. eIF-4γ has several potential glycosylation and phosphorylation sites that could account for its anomalous electrophoretic mobility. In addition, eIF-4γ is rapidly degraded in picornavirus-infected cells due to its content of multiple PEST sequences.



Western blot analysis of eIF-4γ on EB-1 lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of eIF-4γ.*

Immunofluorescence staining of HeLa *cells*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

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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

Gan W, Rhoads RE. Internal initiation of translation directed by the 5'-untranslated region of the mRNA for eIF4G, a factor involved in the picornavirus-induced switch from cap-dependent to internal initiation. *J Biol Chem.* 1996; 271(2):623-626.(Biology)

Kedersha N, Chen S, Gilks N. Evidence that ternary complex (eIF2-GTP-tRNA(i)(Met))-deficient preinitiation complexes are core constituents of mammalian stress granules. *Mol Biol Cell.* 2002; 13(1):195-210.(Clone-specific: Immunofluorescence)

Yan R, Rychlik W, Etchison D, Rhoads RE. Amino acid sequence of the human protein synthesis initiation factor eIF-4 gamma. *J Biol Chem.* 1992; 267(32):23226-23231.(Biology)