Technical Data Sheet

Purified Mouse Anti-eIF-4y

Product Information

Material Number:610536Size: $50 \mu g$ Concentration: $250 \mu g/ml$ Clone: $40/eIF-4\gamma$

Immunogen: Human eIF-4γ aa. 1217-1386

 Isotype:
 Mouse IgG1

 Reactivity:
 QC Testing: Human

 Tested in Development: Dog

220 kDa

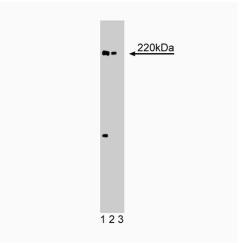
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

azide.

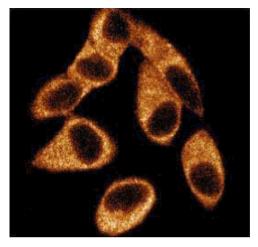
Description

Target MW:

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-4 γ . eIF-4 γ , also referred to as p220, is a 1396 amino acid polypeptide that migrates as a 220kDa. eIF-4 γ has several potential glycosylation and phosphorylation sites that could account for its anomalous electrophoretic mobility. In addition, eIF-4 γ is rapidly degraded in picornavirus-infected cells due to its content of multiple PEST sequences.



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

- 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.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before 3. 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 (elF2-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)

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