Technical Data Sheet Purified Mouse Anti-Eps15

Product Information	
Material Number:	610807
Size:	150 µg
Concentration:	250 µg/ml
Clone:	17/eps15
Immunogen:	Human Eps15 aa. 694-888
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	145 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.0 azide.	

Description

The eps15 (EGF receptor pathway substrate clone number 15) gene was isolated using an expression cloning method designed for direct isolation of cDNAs encoding substrates of tyrosine kinases. The eps15 gene encodes a 145 kDa protein that is tyrosine phosphorylated following EGF receptor activation and this receptor directly phosphorylates purified Eps15 in vitro. Phosphorylation of Eps15 is much more efficient following EGF receptor activation versus erbB2 kinase activation, suggesting the protein is predominantly a part of an EGF receptor signaling pathway. Overexpression of Eps15 causes transformation of NIH 3T3 cells, implying Eps15 may be involved in the control of cell proliferation. Eps15 binds to the SH3 domain of Crk through its proline-rich domain at the C-terminal region. Adaptin α binds to the C-terminus of Eps15 at three different sites ranging from residues 650 to 730. Eps15, Adaptin α , and EGF receptor are co-localized at the clathrin-coated pits after receptor activation. Therefore, Eps15 may recruit EGF receptors to the clathrin-coated pits for internalization of the activated receptor.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

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

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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
611451	Jurkat Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

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.

 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

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