Technical Data Sheet

Purified Mouse Anti-ZRP-1

Product Information

Material Number:	**612254**
Alternate Name:	Zyxin Related Protein-1; TRIP6; Thyroid Receptor Interacting Protein-6
Size:	50 µg
Concentration:	250 µg/ml
Clone:	16/ZRP-1
Immunogen:	Human ZRP-1 aa. 103-209
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Rat
Target MW:	51 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Zyxin is a zinc-binding metalloprotein found in focal adhesion plaques. It contains a proline-rich N-terminal domain and a C-terminal domain containing three LIM domains. LIM domains are characterized as zinc-binding motifs involved in gene expression and protein-protein interactions. Zyxin related protein 1 (ZRP-1) was identified through its interaction with the second PDZ domain of PTP1E. ZRP-1 has also been identified as Thyroid Receptor Interacting Protein-6 (TRIP6) during screening for binding partners of the thyroid hormone receptor. ZRP-1 contains an N-terminal proline-rich region (PRR), and three double zinc finger LIM domains in the C-terminal region. ZRP-1 mRNA has been reported to be widely expressed with strong expression in heart, placenta, lung, liver, kidney, and pancreas. ZRP-1 may interact with focal adhesions similar to other LIM domain proteins in the zyxin-related subfamily. However, ZRP-1 also contains nuclear export signal, and treatment of cells with leptomycin B leads to movement of ZRP-1 from the cytoplasm to the nucleus. Thus, ZRP-1 may be important for relaying signals from focal adhesions to the nucleus.

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

Western blot analysis of ZRP-1 on a BC3H1 cell lysate (Mouse brain smooth muscle-like cells; ATCC CRL-1443). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- ZRP-1 antibody.*

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	Not Recommended

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
554002	HRP Goat Anti-Mouse Ig	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.
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

Murthy KK, Clark K, Fortin Y, Shen SH, Banville D. ZRP-1, a zyxin-related protein, interacts with the second PDZ domain of the cytosolic protein tyrosine phosphatase hPTP1E. *J Biol Chem.* 1999; 274(29):20679-20687.(Biology)

Wang Y, Gilmore TD. LIM domain protein Trip6 has a conserved nuclear export signal, nuclear targeting sequences, and multiple transactivation domains. *Biochim Biophys Acta.* 2001; 1538(2-3):260-272.(Biology)