

Technical Data Sheet

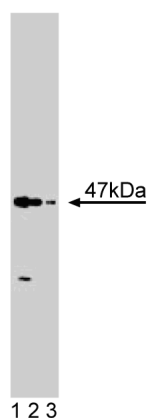
Purified Mouse Anti-Pleckstrin

Product Information

Material Number:	610503
Size:	50 µg
Concentration:	250 µg/ml
Clone:	25/Pleckstrin
Immunogen:	Human Pleckstrin aa. 2-16
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse
Target MW:	47 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Pleckstrin was identified in platelets as a major substrate for Protein Kinase C. Both ends of the molecule are the prototypes of a widely distributed module named the "pleckstrin homology" (PH) domain that consists of seven β-strands. In pleckstrin, the PH domains are separated by 150 amino acids. PH domains are commonly found in signal transduction proteins. Although pleckstrin's role is still poorly defined, PH domains are widely used by receptors for interaction with G proteins and for membrane attachment. It is thought that PH domains regulate the binding of pleckstrin to membranes and modulate phosphoinositide metabolism by its binding to G proteins.



Western blot analysis of Pleckstrin on HEL lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Pleckstrin.

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
Immunoprecipitation	Not Recommended
Immunofluorescence	Not Recommended
Immunohistochemistry	Not Recommended

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
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/pharming/en/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

- Abrams CS, Wu H, Zhao W, Belmonte E, White D, Brass LF. Pleckstrin inhibits phosphoinositide hydrolysis initiated by G-protein-coupled and growth factor receptors. A role for pleckstrin's PH domains. *J Biol Chem.* 1995; 270(24):14485-14492.(Biology)
- Elzagallaai A, Rose SD, Trifaro JM. Platelet secretion induced by phorbol esters stimulation is mediated through phosphorylation of MARCKS: a MARCKS-derived peptide blocks MARCKS phosphorylation and serotonin release without affecting pleckstrin phosphorylation. *Blood.* 2000; 95(3):894-902.(Clone-specific: Western blot)
- Schebesta M, Pfeffer PL, Busslinger M. Control of pre-BCR signaling by Pax5-dependent activation of the BLNK gene. *Immunity.* 2002; 17(4):473-485. (Clone-specific: Western blot)
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