Technical Data Sheet

Purified Mouse Anti-p62 lck ligand

Product Information

Material Number: 610832

Alternate Name: Zeta Interacting Protein (ZIP); SQSMT1

 Size:
 50 μg

 Concentration:
 250 μg/ml

Clone: 3/P62 LCK LIGAND

Immunogen: Human p62 lck ligand aa. 257-437

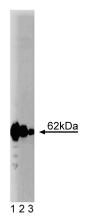
Target MW: 62 kDa

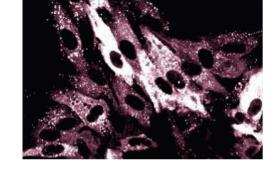
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

azide.

Description

p62 lck ligand (zeta-interacting protein (ZIP)) is a cytoplasmic protein that binds to the SH2 domain of lck (a T cell src tyrosine kinase) in the absence of a phosphotyrosine in either protein. The ubiquitously expressed p62 lck ligand contains a cysteine rich region that is similar to a zinc finger domain, a G protein binding region, a PEST sequence, and several phosphorylation sites. Deletion of the p62 lck ligand N-terminal domain has been reported to abrogate its binding to lck. However, mutation of the tyrosine did not have an effect. In addition, p62 lck ligand binds to the pseudosubstrate region of the PKC ζ catalytic domain. In turn, PKC ζ phosphorylates p62. p62 lck ligand binds to the dimerization region of PKC ζ , thereby inhibiting PKC ζ -PKC ζ interaction. This suggests that p62 lck ligand may compete with PKC ζ . However, it requires PKC ζ for proper subcellular localization. These data suggest that p62 lck ligand may be part of the protein bridge that links PKC ζ to the tyrosine kinases involved in signaling pathways.





Western blot analysis of p62 lck ligand on a HCT-8 (human colorectal adenocarcinoma; ATCC CCL-244) cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti-p62 lck ligand antibody.

Immunofluorescence staining on FHs cells (normal human fetal lung fibroblasts; ATCC HTB-157).

Preparation and Storage

Store undiluted at -20°C.

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

Application Notes

Application

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

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Suggested Companion Products

Catalog Number	<u>Name</u>	Size	Clone
611474	HCT-8 Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1 mL	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- 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.

References

Bjørkøy G, Lamark T, Pankiv S, Øvervatn A, Brech A, Johansen T. Monitoring autophagic degradation of p62/SQSTM1. *Methods Enzymol.* 2009; 452:181-197. (Clone-specific)

Cariou B, Perdereau D, Cailliau K, et al. The adapter protein ZIP binds Grb14 and regulates its inhibitory action on insulin signaling by recruiting protein kinase Czeta. *Mol Cell Biol.* 2002; 22(20):6959-6970. (Biology: Western blot)

Joung I, Strominger JL, Shin J. Molecular cloning of a phosphotyrosine-independent ligand of the p56lck SH2 domain. *Proc Natl Acad Sci U S A.* 1996; 93(12):5991-5995. (Biology: Western blot)

Puls A, Schmidt S, Grawe F, Stabel S. Interaction of protein kinase C zeta with ZIP, a novel protein kinase C-binding protein. *Proc Natl Acad Sci U S A.* 1997; 94(12):6191-6196. (Biology)

Wooten MW, Seibenhener ML, Mamidipudi V, Diaz-Meco MT, Barker PA, Moscat J. The atypical protein kinase C-interacting protein p62 is a scaffold for NF-kappaB activation by nerve growth factor. *J Biol Chem.* 2001; 276(11):7709-7712. (Biology: Immunoprecipitation, Western blot)

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