

Technical Data Sheet

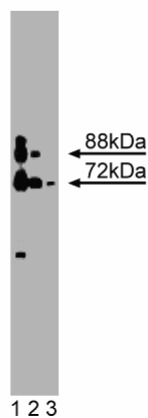
Purified Mouse Anti-JBP1/Skb1Hs

Product Information

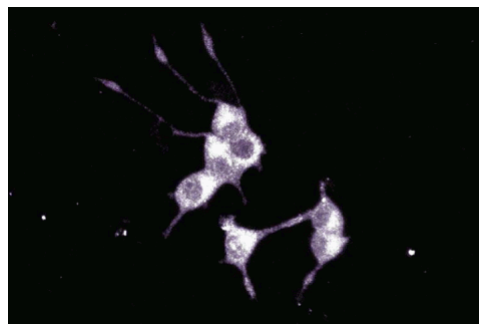
Material Number:	611538
Size:	50 µg
Concentration:	250 µg/ml
Clone:	32/JPB1
Immunogen:	Human Skb1Hs aa. 423-624
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse
Target MW:	72 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

p21[Cdc42/Rac]-activated kinases (PAKs) bind and are activated by the small GTPases, Cdc42 and Rac. In yeast, the interaction of the PAK, Shk1, with Skb1 (Shk1 kinase binding protein 1) is important in the regulation of cell morphology and mitosis. Skb1Hs, the human homolog of Skb1, restores growth rates in yeast cells deficient for Skb1. Skb1Hs has also been identified as a 72 kDa pICln-binding protein (IBP72). pICln is thought to be a cytosolic regulator of a swelling-induced chloride channel and interactions with Skb1Hs suggest a link with PAKs, which are involved in cytoskeletal rearrangement. An additional line of study has identified Skb1Hs as a Jak binding protein (JBP1) via its interactions with Jak1-3 and Tyk2. This study also identified Skb1Hs as a methyltransferase that interacts with multiple proteins which possibly serve as physiological targets. Skb1Hs is expressed in a wide range of tissues and is thought to form homodimeric or multimeric complexes. Thus, Skb1Hs (IBP72, JBP1) is a multifunctional protein that may participate in such diverse processes as transcriptional and translational regulation, cytoskeletal rearrangement, and any of a number of signaling pathways.



Western blot analysis of JBP1/SKB1HS on SW13 lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 of JBP1/SKB1HS.



PC12

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

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611475	SW-13 Cell Lysate	500 µg	(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

Gilbreth M, Yang P, Bartholomeusz G, et al. Negative regulation of mitosis in fission yeast by the shk1 interacting protein skb1 and its human homolog, Skb1Hs. *Proc Natl Acad Sci U S A*. 1998; 95(25):14781-14786.(Biology)

Krapivinsky G, Pu W, Wickman K, Krapivinsky L, Clapham DE. pICln binds to a mammalian homolog of a yeast protein involved in regulation of cell morphology. *J Biol Chem*. 1998; 273(18):10811-10814.(Biology)

Pollack BP, Kotenko SV, He W, Izotova LS, Barnoski BL, Pestka S. The human homologue of the yeast proteins Skb1 and Hsl7p interacts with Jak kinases and contains protein methyltransferase activity. *J Biol Chem*. 1999; 274(44):31531-31542.(Biology)