Technical Data Sheet

Purified Mouse Anti-BRUCE

Product Information

Material Number: Alternate Name: Size **Concentration: Clone:** Immunogen: Isotype: **Reactivity:**

Target MW: **Storage Buffer:**

611193

BIR Repeat containing Ubiquitin-Conjugating Enzyme 150 µg 250 µg/ml 4/BRUCE Mouse BRUCE aa. 372-571 Mouse IgG1 QC Testing: Human Tested in Development: Mouse, Rat, Dog 528 kDa Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Selective proteolysis is essential for the modulation of key cellular processes such as cell cycle progression. However, unlike other post-translational events, proteolysis is irreversible and therefore must occur in unidirectional cellular pathways. In eukaryotes, proteolysis is mediated primarily by the ubiquitin pathway. This pathway designates proteins for degradation by the proteasome, a multicatalytic protease complex. The ubiquitin pathway is a multistep system that tags proteins for degradation via the attachment of ubiquitin molecules to the target. This attachment is mediated by the ubiquitin activating/conjugating enzymes E1, E2, E3, and BRUCE. BRUCE (BIR Repeat containing Ubiquitin-Conjugating Enzyme) is a novel enzyme that associates with the Golgi and the vesicular system. It contains a UBC (ubiquitin conjugating enzyme) domain, which is essential for catalysis, and a BIR (baculovirus inhibitor of apoptosis repeat) motif. BIR motifs are also found within inhibitor of apoptosis proteins (IAP) and are critical for anti-apoptotic activity. Therefore, BRUCE may function to both mediate ubiquitin-dependent proteolysis and contribute to anti-apoptotic cellular pathways.







Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma: ATCC CCL-2.2).

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	

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Recommended Assav Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/support/resources/cell_biology/index.jsp Clone 4/BRUCE has also been shown to work well for Western blot application on Hela lysate (Cat. No. 611449)

Suggested Companion Products

Catalog Number	Name	Size	Clone
611475	SW-13 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611449	HeLa Cell Lysate	500 µg	(none)
353219	BD Falcon [™] 96-well Imaging Plate	NA	(none)

Product Notices

Since applications vary, each investigator should titrate the reagent to obtain optimal results. 1.

- 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 3. 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

Hauser HP, Bardroff M, Pyrowolakis G, Jentsch S. A giant ubiquitin-conjugating enzyme related to IAP apoptosis inhibitors. J Cell Biol. 1998; 141(6):1415-1422. (Biology)

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