Human FUBI/MNSFβ Antibody

Monoclonal Rat IgG_{2B} Clone # 861504

Catalog Number: MAB9036

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FUBI in direct ELISAs.
Source	Monoclonal Rat IgG_{2B} Clone # 861504
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E.coli*-derived recombinant human FUBI/MNSFβ Met1-Gly74 Accession # P35544
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

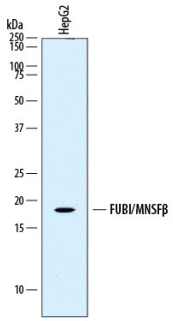
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

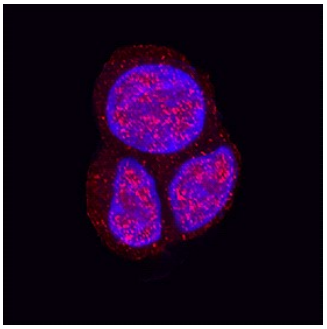
DATA

Western Blot



Detection of Human FUBI/MNSFβ by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Rat Anti-Human FUBI/MNSFβ Monoclonal Antibody (Catalog # MAB9036) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for FUBI/MNSFβ at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



FUBI/MNSFβ in HEK293 Human Cell Line. FUBI/MNSFβ was detected in immersion fixed HEK293 human embryonic kidney cell line using Rat Anti-Human FUBI/MNSFβ Monoclonal Antibody (Catalog # MAB9036) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasmic puncta. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The ubiquitin-like protein FUBI/ MNSFβ (Monoclonal Nonspecific Suppressor Factor Beta) is encoded by the FAU gene, and is translated as a pro-form consisting of FUBI fused to the ribosomal S30 protein. S30 is cleaved in a post-translational reaction, releasing the mature 74 amino acid FUBI/MNSFβ protein. FUBI has a C-terminal gly-gly motif common to many ubiquitin-like proteins. FUBI/ MNSFβ conjugation to Bcl-G has been shown to regulate the ERK1/2-MAPK cascade in macrophage cell lines, and may be implicated in TLR4-mediated signal transduction. Conjugation to endophilin II regulates dectin-1-mediated phagocytosis and inflammatory responses, and may be implicated in TLR2 signaling pathway.

References:

1. Rossman,T.G. *et al.* (2003) Oncogene **22**:1817.
2. Nakamura, M. & Omura, S. (2008) Biosci. Biotech. Biochem. **72**:1915.
3. Nakamura, M. & Yamaguchi, S. (2006) J. Biol. Chem. **281**:16861.
4. Nakamura, M & Watanabe, N. (2010) Biochem, Biophys. Res. Comm. **15**:275.
5. Nakamura, M. *et al.* (2012) Mol. Cell Biochem. **364**:39.

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