

Monoclonal anti-human STOM antibody (clone AT33F5)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0291

Immunogen: Recombinant human STOM (55-288aa) purified from *E. coli*

NCBI Accession No.: NP_004090

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human STOM mAb, clone AT33F5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human STOM protein.

Description: STOM(stomatin) is a member of a highly conserved family of integral membrane proteins. This protein localizes to the cell membrane of red blood cells and other cell types, where it may regulate ion channels and transporters. Loss of localization of STOM is associated with hereditary stomatocytosis, a form of hemolytic anemia. Although the wide distribution of stomatin and its constitutive expression suggest an important role for this protein in cell biology, perhaps as a house-keeping component, its function remains undetermined. The massive presence of stomatin in membrane-protruding folds and extensions suggests a possible structural role for this protein in the formation of these structures and/or the anchorage to the actin cytoskeleton.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

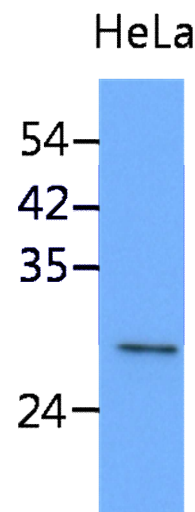


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Product information

Western blot analysis

The cell lysates of HeLa (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human STOM antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

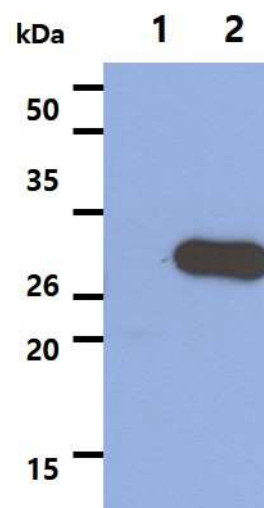


Western blot analysis

The Cell lysates (20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human STOM antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

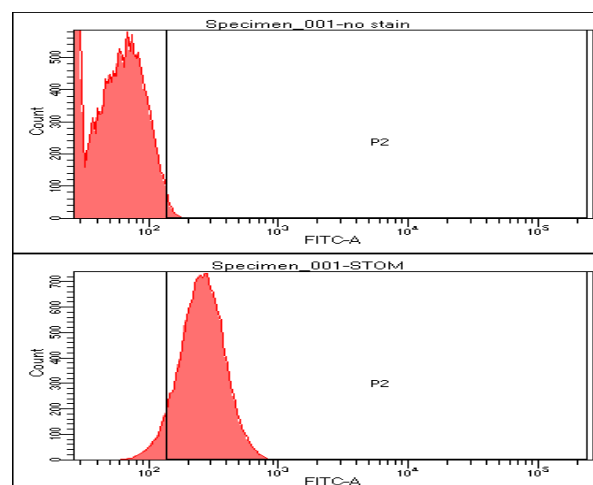
Lane 1.: 293T cell lysate

Lane 2.: STOM Transfected 293T cell lysate



Flow cytometry

Flow cytometry analysis of STOM in HeLa cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

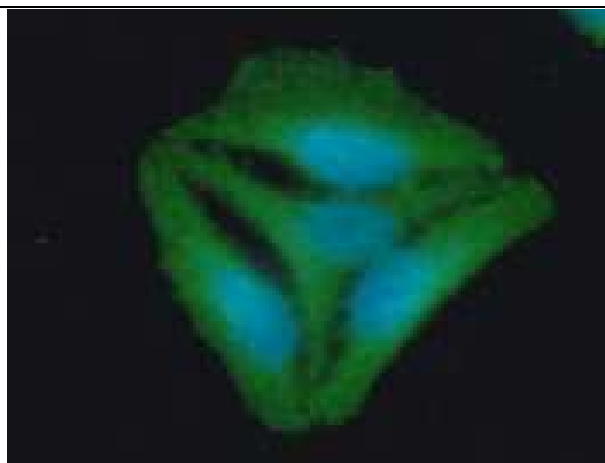


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ICC/IF analysis

ICC/IF analysis of STOM in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human STOM antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Hiebl-Dirschmied CM., *et al.* (1991) *Biochim Biophys Acta*. **1090(1)**: 123-124.
Stewart GW. (1997) *J Biol Chem*. **29(2)**: 271-274.

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