Product information

Monoclonal anti-human NME1 antibody (clone AT5F4)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0461

Immunogen: Recombinant human NME1 (1-152aa) purified from *E. coli*

NCBI Accession No.: NP_000260

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

Clone: Anti-human NME1 mAb, clone AT5F4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NME1 protein.

Description: Non-metastatic cells 1 (NME1), also known as NM23-H1, originally identified as a candidate metastasis suppressor gene. NME1 is expressed in different tumor types where their levels have been alternatively associated with reduced or increased metastatic potential. Reductions in NME1 expression have been significantly associated with aggressive behavior in melanoma, breast, colon, and gastric carcinomas. On the contrary, high levels of NME1 gene expression are noted in the advanced stage of thyroid carcinomas.

Concentration: 1 mg/ml

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

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. 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.

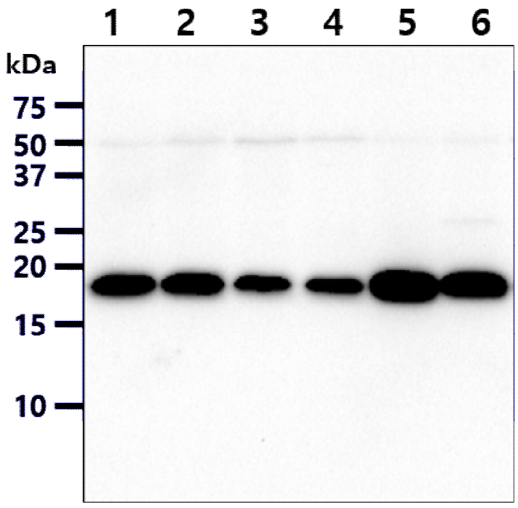
Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product information

Western blot analysis

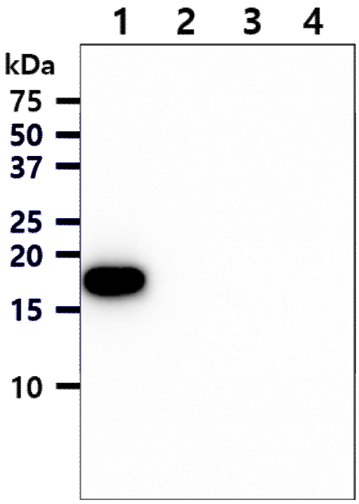
The cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1 : HeLa cell lysate
Lane 2 : A549 cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : HepG2 cell lysate
Lane 5 : MCF7 cell lysate
Lane 6 : PC3 cell lysate

Western blot analysis

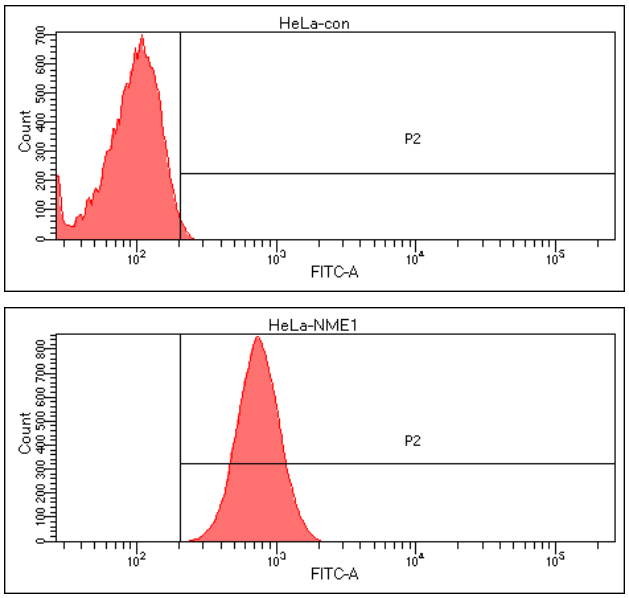
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1 : NME1
Lane 2 : NME2
Lane 3 : NME3
Lane 4 : NME4

Flow cytometry

Flow cytometry analysis of NME1 in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



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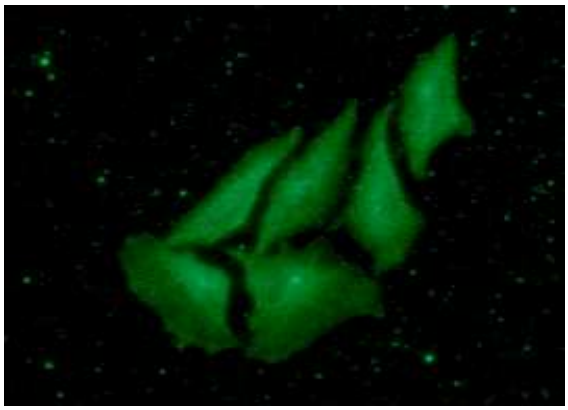
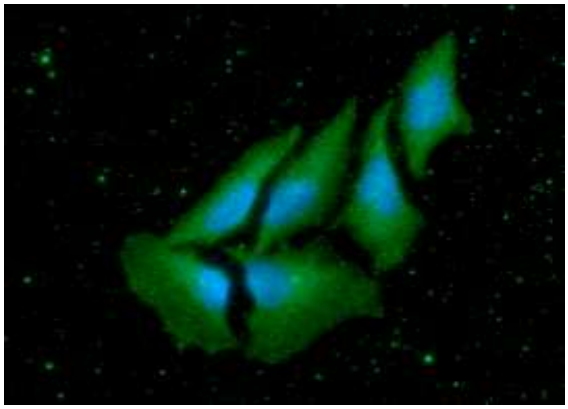
ICC/IF analysis

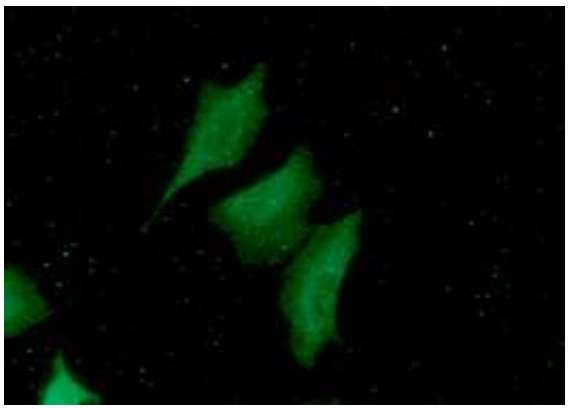
ICC/IF analysis of NME1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NME1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

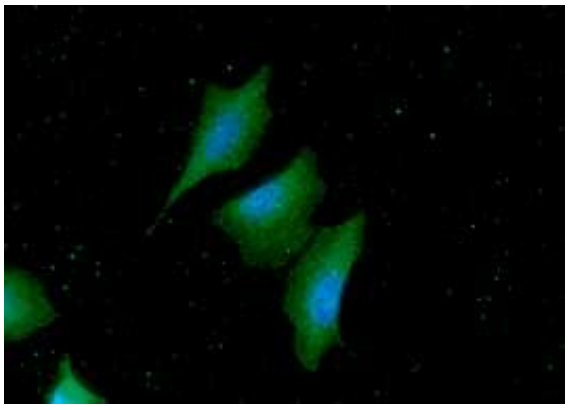




ICC/IF analysis

ICC/IF analysis of NME1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NME1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).





General references: Tee YT., *et al*. (2006) *Taiwan J Obstet Gynecol*. **45(2):** 107-13.

Negroni A., *et al*. (2000) *Cell Death Differ*. **7(9):** 843-50.

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