Product information



Monoclonal anti-human Hsp105 α antibody (clone J1G12)

Mouse IgG_{2b}, κ

Cat. No. IBAHS0827

Immunogen: Recombinant human Hsp105 α (1-858aa) purified from E. coli

NCBI Accession No.: NP_006635

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

Clone: Anti-human Hsp105 α mAb, clone J1G12, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Hsp105 α protein.

Description: Hsp105 is a mammalian member of the Hsp105/110 family, a diverged subgroup of the Hsp70 family. Hsp105 exists as two isoforms, alpha and beta. Hsp105 alpha associates with Hsp70/Hsc70 as complexes *in vivo* and regulates the chaperone activity of Hsp70/Hsc70 negatively *in vitro* and *in vivo*. Hsp105 α is constitutively expressed and also induced by various stress, whereas Hsp105 β , lacking 44 amino acids from Hsp105 α , is specifically expressed during mild heat shock. Although Hsp105 α is shown to localize in the cytoplasm of mammalian cells, cellular localization of Hsp105 β is not known

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

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Product information

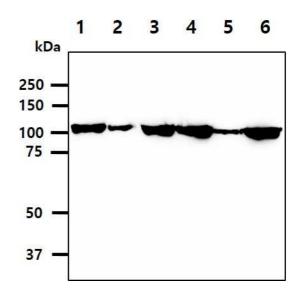


Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hsp105 α antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

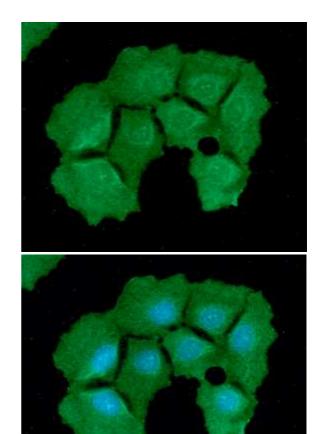
Lane 1.: HeLa cell lysate
Lane 2.: HepG2 cell lysate
Lane 3.: NIH-3T3 cell lysate
Lane 4.: MCF7 cell lysate
Lane 5.: U-87 MG cell lysate

Lane 6.: A549 cell lysate



ICC/IF analysis

ICC/IF analysis of Hsp105 α in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Hsp105 α antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).





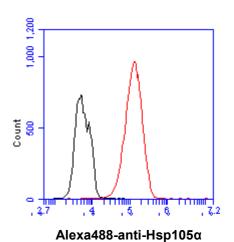
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Flow cytometry

Flow cytometry analysis of Hsp105 α in Hep3B 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).



General references: Wang XY., et al. (2001) J Immunol. 166(1): 490-7.

Yamagishi., et al. (2006) Exp Cell Res. **312(17)**: 3215-23. Saito., et al. (2007) Exp Cell Res. **313(17)**: 3707-17.

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