

Human HO-1/HMOX1/HSP32 antibody

Catalog Number: ATGA0454

PRODUCT INFORMATION

Catalog number

ATGA0454

Clone No.

AT1D6

Product type

Monoclonal Antibody

UnitProt No.

P09601

NCBI Accession No.

NP_002124

Alternative Names

HO-1, Heat shock protein 32, HSP32, bK286B10, D8Wsu38e, Heme oxygenase (decycling) 1, Heme oxygenase 1, Hemox, Hmox, HMOX 1, HMOX1, HO, HO 1, HO1.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Heme oxygenase1 (1-266aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS, ICC/IF

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.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Heme oxygenase 1 belongs to the heme oxygenase family and is an essential enzyme in heme catabolism. It cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Also this protein is known to play an important role in the regulation of cardiovascular function and its adaptive response to a variety of stressors.

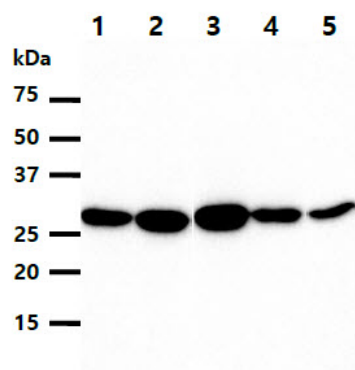
General References

Soares MP., et al. (2001) Immunol Rev.

Vareille M., et al. (2008) J Immunol. 180(8): 5720-6.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HMOX antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

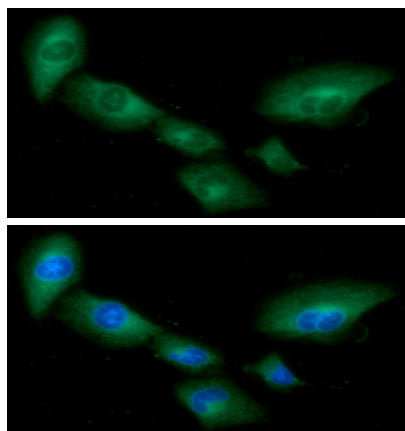
Lane 2.: A549 cell lysate

Lane 3.: 293T cell lysate

Lane 4.: HepG2 cell lysate

Lane 5.: TF-1 cell lysate

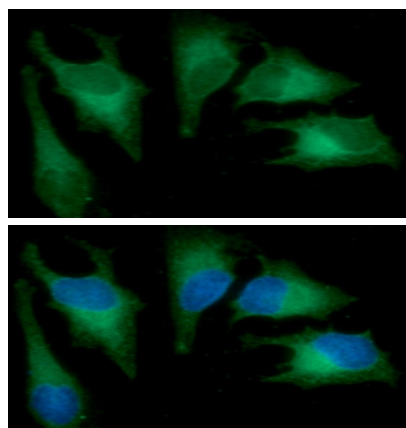
Immunocytochemistry/Immunofluorescence (ICC/IF)



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

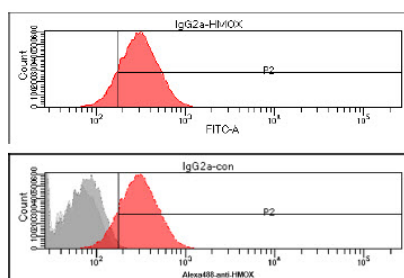
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ICC/IF analysis of HMOX in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human HMOX antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)

Flow cytometry (FACS)



Flow cytometry analysis of HMOX in HeLa cells. The cell was stained with ATGA0454 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).