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

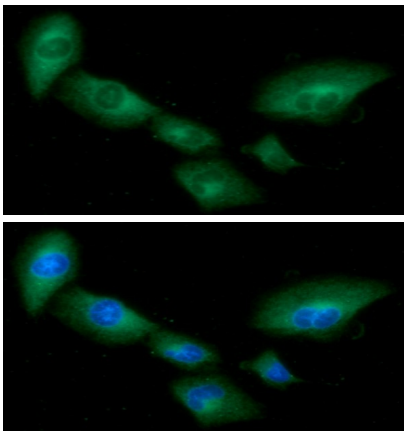
Soares MP., et al. (2001) Immunol Rev.
Vareille M., et al. (2008) J Immunol. 180(8): 5720-6.

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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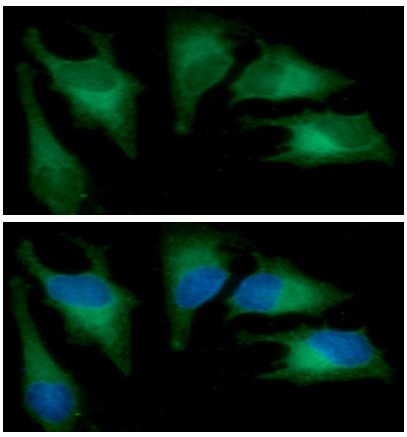
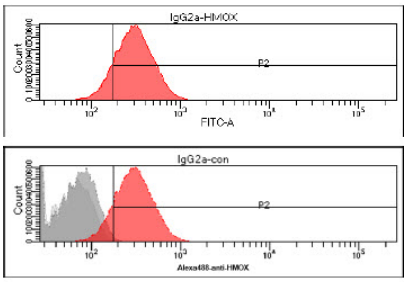


ICC/IF analysis of HMOX in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human HMOX antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)

Flow cytometry (FACS)



Flow cytometry analysis of HMOX in HeLa cells. The cell was stained with ATGA0454 at 2-5ug for 1x106cells (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).