

For Research Use Only

MOSC2 Recombinant monoclonal antibody

Catalog Number: 83705-2-RR

Featured Product



Basic Information

Catalog Number:

83705-2-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20694

GenBank Accession Number:

BC011973

GeneID (NCBI):

54996

UNIPROT ID:

Q969Z3

Full Name:

MOCO sulphurase C-terminal domain containing 2

Calculated MW:

335 aa, 38 kDa

Observed MW:

35-38 kDa

Purification Method:

Protein A purification

CloneNo.:

240747G6

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:200-1:800

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse liver tissue, HEK-293 cells, HUVEC cells, mouse kidney tissue, rat liver tissue

IHC: human stomach cancer tissue,

FC (Intra): HeLa cells,

Background Information

MOSC domain-containing protein 2 (also known as MOSC2), also known as MARC2, is a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability. Also, MOSC2 may be involved in mitochondrial N(omega)-hydroxy-L-arginine (NOHA) reduction, regulating endogenous nitric oxide levels and biosynthesis. The reductase activity is regulated under adipogenic conditions, and down-regulation of the terminal component MOSC2 resulted in decreased lipid synthesis, suggesting a possible physiological role of this enzyme system and its component MOSC2 in lipogenesis(PMID: 22203676).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

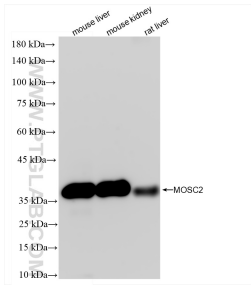
T: 4006900926

E: Proteintech-CN@ptglab.com

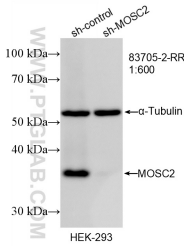
W: ptgcn.com

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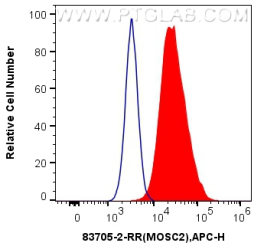
Selected Validation Data



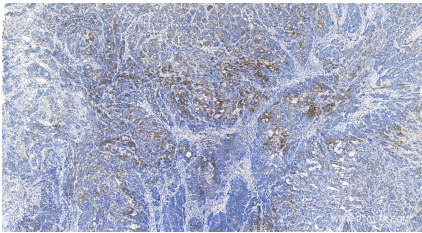
Various lysates were subjected to SDS PAGE followed by western blot with 83705-2-RR (MOSC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



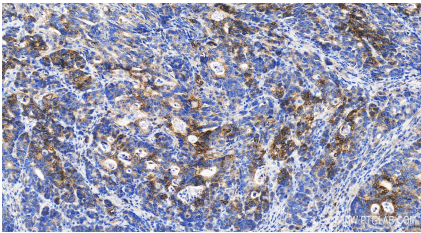
WB result of MOSC2 antibody (83705-2-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-MOSC2 transfected HEK-293 cells.



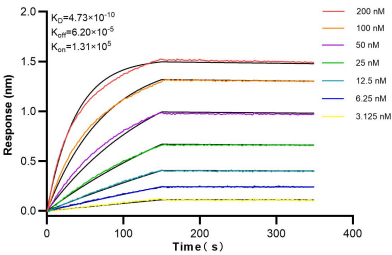
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MOSC2 Recombinant antibody (83705-2-RR, Clone:240747G6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83705-2-RR (MOSC2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83705-2-RR (MOSC2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83705-2-RR against Human MOSC2 were performed. The affinity constant is 0.473 nM.