For Research Use Only

MOSC2 Recombinant antibody

Catalog Number:83705-2-RR

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
83705-2-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

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

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

IHC : human stomach cancer tissue,

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).

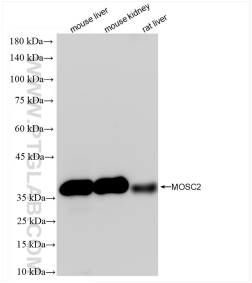
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

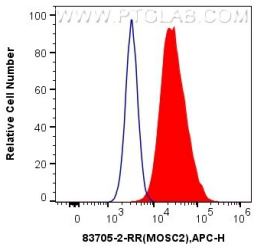
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

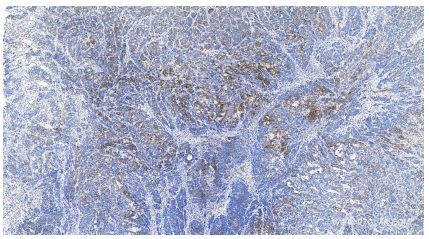
Selected Validation Data



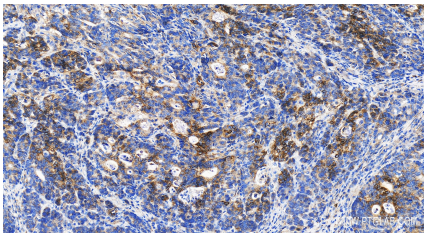
Various lysates were subjected to SDS PAGE followed by western blot with 83705-2-RR (MOSC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



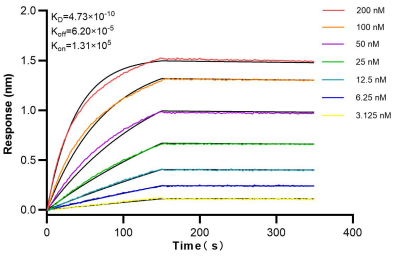
1x10^6 HeLa cells were intracellularly stained with 0.25 ug MOSC2 Recombinant antibody (83705-2-RR, Clone:240747G6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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.