For Research Use Only

# MOSC2 Recombinant antibody, PBS Only (Capture)

Catalog Number:83705-2-PBS

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Uni-rAb
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## Basic Information

Catalog Number:
83705-2-PBS

Size:
100ug , Concentration: 1 mg/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

## Applications

Tested Applications:
WB, IHC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

## Product Information

83705-2-PBS targets MOSC2 as part of a matched antibody pair:

MP00646-2: 83705-2-PBS capture and 83705-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

## Background Information

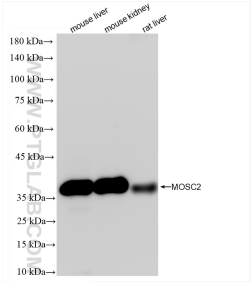
MOSC domain-containing protein 2 (also known as MOSC2), also known as MARC2, is a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability. Also, MOSC2 may be involved in mitochondrial N(omega)-hydroxy-L-arginine (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

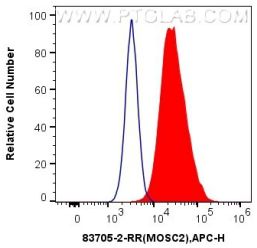
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

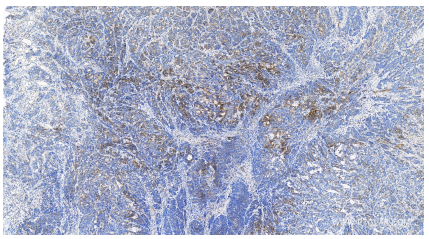
## Selected Validation Data



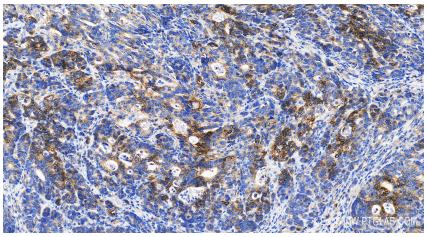

Various lysates were subjected to SDS PAGE followed by western blot with 83705-2-RR (MOSC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.



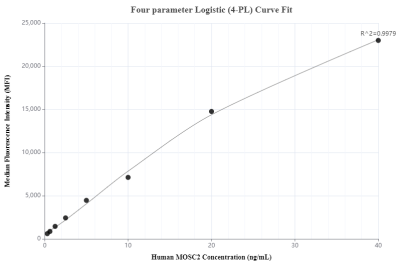

1x10^6 HeLa cells were intracellularly stained with 0.25 ug MOSC2 Recombinant antibody (83705-2-RR, Clone:240747G6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.



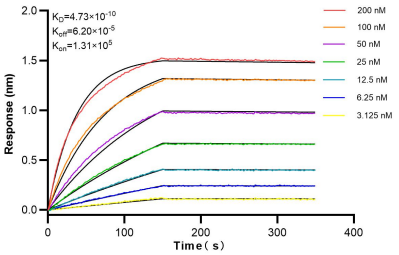
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83705-2-RR (MOSC2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.




Cytometric bead array standard curve of MP00646-2, MOSC2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83705-2-PBS. Detection antibody: 83705-1-PBS. Standard: Ag20694. Range: 0.313-40 ng/mL.




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