

For Research Use Only

MOSC2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83705-2-PBS



Basic Information

Catalog Number: 83705-2-PBS	GenBank Accession Number: BC011973	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 54996	CloneNo.: 240747G6
Source: Rabbit	UNIPROT ID: Q969Z3	
Isotype: IgG	Full Name: MOCO sulphurase C-terminal domain containing 2	
Immunogen Catalog Number: AG20694	Calculated MW: 335 aa, 38 kDa	
	Observed MW: 35-38 kDa	

Applications

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

Species Specificity:
human, mouse, rat

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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

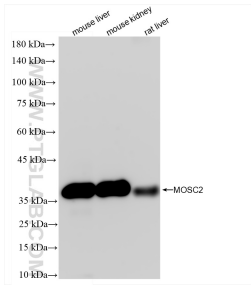
T: 4006900926

E: Proteintech-CN@ptglab.com

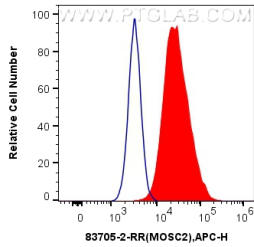
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

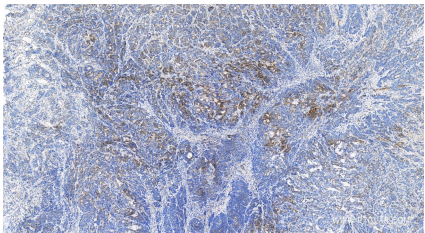
Selected Validation Data



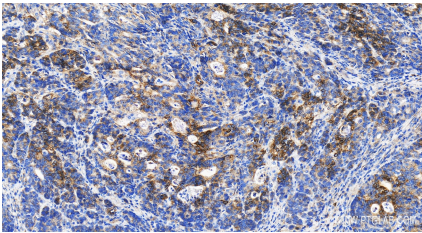
Various lysates were subjected to SDS PAGE followed by western blot with 83705-2-RR (MOSC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.



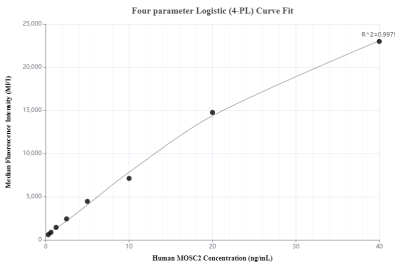
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MOSC2 Recombinant antibody (83705-2-RR, Clone:240747G6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83705-2-PBS in a different storage buffer formulation.



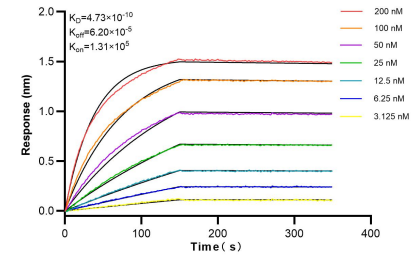
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83705-2-RR (MOSC2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83705-2-PBS in a different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