10320 Camino Santa Fe, Suite G
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PHYH/PAHX Antibody
PHYH/PAHX Antibody, Clone S210-5
Catalog # ASM10304

Specification

PHYH/PAHX Antibody - Product Information

Application	**WB**
Primary Accession	O14832
Other Accession	NP_001032626.1
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Human PHYH/PAHX Monoclonal IgG1

Target/Specificity
Detects ~40kDa.

Other Names
Phytanoyl-CoA dioxygenase Antibody, peroxisomal Antibody, PAHX Antibody, peroxisomal Antibody, PhyH Antibody, PHYH1 Antibody, Phytanic acid oxidase Antibody, phytanoil-CoA alpha hydroxylase Antibody, phytanoyl CoA 2 hydroxylase Antibody, Phytanoyl CoA 2 oxoglutarate dioxygenase Antibody, Phytanoyl CoA alpha hydroxylase Antibody, Phytanoyl CoA dioxygenase Antibody, Phytanoyl CoA dioxygenase peroxisomal Antibody, Phytanoyl-CoA alpha-hydroxylase Antibody, Phytanoyl-CoA dioxygenase Antibody, RD Antibody, LN1 Antibody, LNAP1 Antibody, OTTHUMP00000019131 Antibody, OTTHUMP00000019132 Antibody, OTTHUMP00000179083 Antibody, OTTHUMP00000216226, Antibody

Immunogen
Fusion protein amino acids 1-338 (full-length) of human PhyH. Rat: 78% identity (264/338 amino acids identical). Mouse: 78% identity (264/338 amino acids identical).

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
1 µg/ml of SMC-472 was sufficient for detection of PHYH/PAHX in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Peroxisome

PHYH/PAHX Antibody - Protocols

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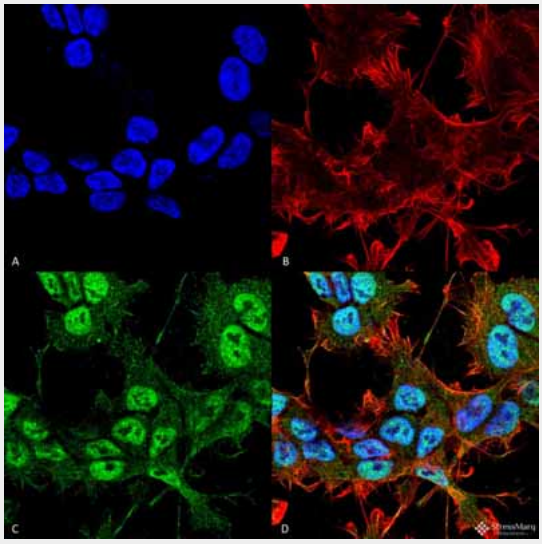
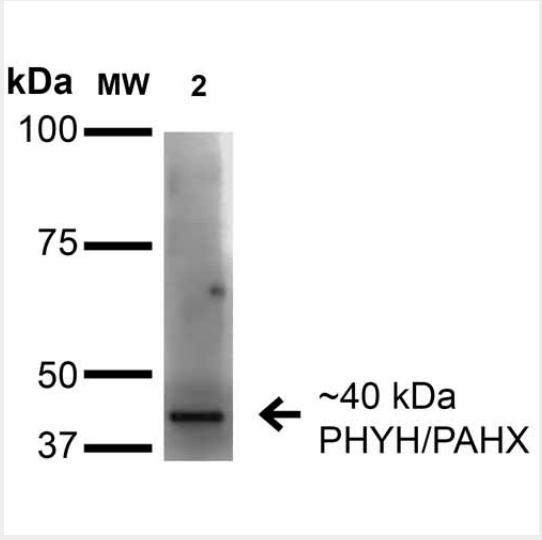
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PHYH/PAHX Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-PHYH/PAHX Monoclonal Antibody, Clone S210-5 (ASM10304). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-PHYH/PAHX Monoclonal Antibody (ASM10304) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Peroxisome, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) PHYH/PAHX Antibody (D) Composite.



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Western Blot analysis of Rat Brain Membrane showing detection of ~40 kDa PHYH/PAHX protein using Mouse Anti-PHYH/PAHX Monoclonal Antibody, Clone S210-5 (ASM10304). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-PHYH/PAHX Monoclonal Antibody (ASM10304) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~40 kDa.

PHYH/PAHX Antibody - Background

Phytanoyl-CoA alpha-hydroxylase (PHYH) is also called Phytanoyl-CoA dioxygenase, peroxisomal, Phytanic acid oxidase and the gene names PHYH or PAHX. PAHX is involved in lipid metabolism and converts phytanoyl-CoA to 2-hydroxyphytanoyl-CoA. PAHX is expressed in liver, kidney, and T-cells. Defects in PHYH can cause Refsum disease (RD).