

## Phytanoyl-CoA 2-hydroxylase (PHYH / PAHX) Monoclonal Antibody

### ORDERING INFORMATION

**Catalog no.:** 13825 (clone S210-5)

**Format:** 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

### BACKGROUND

The *PHYH* gene codes for the enzyme phytanoyl-CoA 2-hydroxylase which is critical for the normal function of peroxisomes. One substance broken down in peroxisomes is phytanic acid, a type of fatty acid obtained primarily from beef and dairy products. Phytanoyl-CoA 2-hydroxylase is responsible for one of the first steps in breaking down phytanic acid via alpha-oxidation. In subsequent steps, additional enzymes in peroxisomes and other parts of the cell further process this compound into smaller molecules that are utilized as sources of energy. Phytanoyl-CoA 2-hydroxylase may have other functions in addition to its role in breaking down phytanic acid; it appears to help determine the number of peroxisomes within cells and is involved in regulating their activity.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 1-338 (full-length) of human PHYH. This sequence is 78% identical in rat and 78% identical in mouse.

**Accession nos:** NP\_001032626.1, O14832

**Gene ID:** 5264

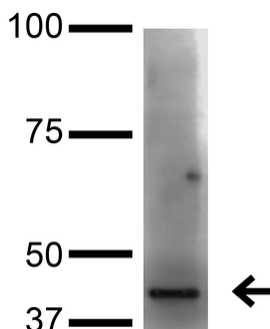
**Host Species:** Mouse

**Antibody Class:** IgG1

**Specificity:** This antibody recognizes human, mouse, and rat PHYH.

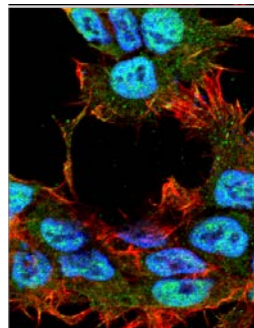
### APPLICATIONS

**Immunoblotting:** use at 1-5ug/ml. A band of ~40kDa is detected.



Detection of PHYH in rat brain lysate with #13825 at 5ug/ml.

**Immunofluorescence:** use at 10ug/ml.



Detection of PHYH in neuroblastoma cell line SK-N-BE with #13825 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) PHYH stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

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### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

### STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

*For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.*