

Recombinant PHF8 Monoclonal Antibody

catalog number: **AN301802L**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

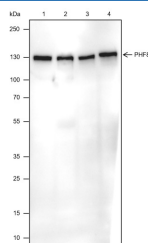
Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human PHF8 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A514
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:500-1:1000
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Data



Western Blot with PHF8 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HEK-293, Lane 3: NIH/3T3, Lane 4: PC-12

Observed-MW:140 kDa

Calculated-MW:118 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

PHF8 is a histone lysine demethylase that functions as a transcriptional activator by specifically demethylating a number of repressive histone methylation marks: mono- and Dimethyl-histone H3 Lys9 (H3K9me1 and H3K9me2), Dimethyl-histone H3 Lys27 (H3K27me2) and Monomethyl-histone H4 Lys20 (H4K20me1). PHF8 contains an N-terminal zinc finger-like PHD domain that binds Trimethylated histone H3 Lys4 (H3K4Me3) and a C-terminal jumonji domain that is responsible for the demethylase activity. PHF8 is highly expressed in prostate cancer, laryngeal squamous cell carcinoma, and human non-small-cell lung cancer (NSCLC). Its expression is predictive of poor survival. Overexpression of PHF8 increases cell proliferation and cell motility, while silencing of PHF8 reduces cell proliferation, migration, and invasion.

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