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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PHF15 (h): 293T Lysate: sc-370192

## BACKGROUND

PHF15 (PHD finger protein 15), also known as JADE2, is a 790 amino acid protein that contains 2 mid-molecule tandem plant homology domain (PHD) zinc fingers and belongs to the JADE family. Encoded by a gene that maps to human chromosome 5q31.1, PHF15 exists as three alternatively spliced isoforms. Endogenous JADE proteins, including Jade-1, PHF15 and PHF16, co-purify with the HBO1 complex, along with either of the individual PHD zinc finger proteins ING4 or ING5. The complex exhibits Histone H4-specific acetyltransferase activity, reduced activity toward Histone H3 and is responsible for the bulk of Histone H4 acetylation *in vivo*. PHF15 shares homology with the developmental patterning regulator of Jade-1, suggesting that PHF15 plays a role in developmental modulation of midline neural structures. Downregulation of PHF15 is also linked to melatonin function in human peripheral blood mononuclear cells.

## REFERENCES

1. Tzouanacou, E., et al. 2003. Identification of Jade1, a gene encoding a PHD zinc finger protein, in a gene trap mutagenesis screen for genes involved in anteroposterior axis development. *Mol. Cell. Biol.* 23: 8553-8552.
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3. Doyon, Y., et al. 2006. ING tumor suppressor proteins are critical regulators of chromatin acetylation required for genome expression and perpetuation. *Mol. Cell* 21: 51-64.
4. Foy, R.L., et al. 2008. Role of Jade-1 in the histone acetyltransferase (HAT) HBO1 complex. *J. Biol. Chem.* 283: 28817-28826.
5. Paziienza, V., et al. 2009. Gene expression profile of Huh-7 cells expressing hepatitis C virus genotype 1b or 3a core proteins. *Liver Int.* 29: 661-669.
6. Terrier, B., et al. 2010. Antifibroblast antibodies from systemic sclerosis patients bind to  $\alpha$ -enolase and are associated with interstitial lung disease. *Ann. Rheum. Dis.* 69: 428-433.
7. Bossers, K., et al. 2010. Concerted changes in transcripts in the prefrontal cortex precede neuropathology in Alzheimer's disease. *Brain* 133: 3699-3723.

## CHROMOSOMAL LOCATION

Genetic locus: PHF15 (human) mapping to 5q31.1.

## PRODUCT

PHF15 (h): 293T Lysate represents a lysate of human PHF15 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

PHF15 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PHF15 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.