

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66341-1-Ig	<b>GenBank-Zugangsnummer:</b> BC020954	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 150ul, Konzentration: 1500 µg/ml von 5274 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 55274	<b>CloneNo.:</b> 4D4C6
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> PHD finger protein 10	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 408 aa, 46 kDa	
<b>Immunogen Katalognummer:</b> AG19096	<b>Beobachtete Masse:</b> 56 kDa, 35 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IHC, WB, ELISA	<b>Positivkontrollen:</b>
<b>In Publikationen genannte Anwendungen:</b> CoIP, WB	<b>WB:</b> fetales humanes Hirngewebe, HEK-293-Zellen, Neuro-2a-Zellen
<b>Getestete Reaktivität:</b> Human, Maus	<b>IHC:</b> humanes Gliomgewebe,
<b>Zitierte Arten:</b> Human, Maus	
<b>Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

PHF10, also named as BRG1-associated factor 45a, is a 498 amino acid protein, which locate in the nucleus and belongs to the SAYP family. PHF10 involve in transcription activity regulation by chromatin remodeling. It belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and is required for the proliferation of neural progenitors. During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth. PHF10 exists as several isoform and the calculated molecular weight of each isoform is 42 kDa, 37 kDa, 51 kDa, and 56 kDa.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Yanchen Ma	34724258	Glia	WB
Yuliang Feng	36909530	bioRxiv	CoIP

## Lagerung

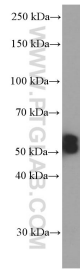
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

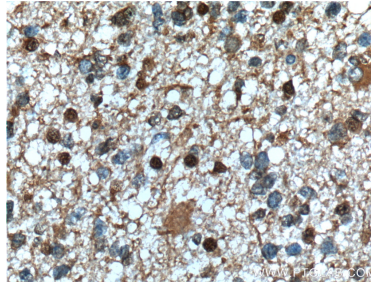
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## Ausgewählte Validierungsdaten



fetal human brain tissue were subjected to SDS PAGE followed by western blot with 66341-1-Ig (PHF10 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66341-1-Ig (PHF10 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).