

## Allgemeine Informationen

## Katalog-Nr.:

12011-1-AP

## Größe:

150ul , Konzentration: 300 µg/ml von Nanodrop und 267 µg/ml durch die Bradford-Methode mit BSA als Standard;

## Wirt:

Kaninchen

## Isotyp:

IgG

## Immunogen Katalognummer:

AG2624

## GenBank-Zugangsnummer:

BC031010

## GeneID (NCBI):

64754

## Vollständiger Name:

SET and MYND domain containing 3

## Berechnete Masse:

428aa,49 kDa; 369aa,42 kDa

## Beobachtete Masse:

42-45 kDa

## Reinigungsmethode:

Antigen-Affinitätsreinigung

## Empfohlene Verdünnungen:

WB 1:500-1:1000  
 IP 0.5-4.0 ug für IP und 1:500-1:1000 für WB  
 IHC 1:50-1:500  
 IF 1:50-1:500

## Anwendungen

## Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

## In Publikationen genannte Anwendungen:

WB

## Getestete Reaktivität:

Human, Maus, Ratte

## Zitierte Arten:

Human, Ratte

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

## Positivkontrollen:

WB : Maushirngewebe, COLO 320-Zellen, HeLa-Zellen, HepG2-Zellen

IP : COLO 320-Zellen,

IHC : humanes Mammakarzinomgewebe, humanes Kolonkarzinomgewebe

IF : HEK-293-Zellen,

## Hintergrundinformationen

SMYD3, also name as ZMYND1 and ZNFN3A1, belongs to the histone-lysine methyltransferase family. It is a histone methyltransferase that plays an important role in transcriptional regulation in human carcinogenesis. It can specifically methylate histone H3 at lysine 4 and activate the transcription of a set of downstream genes, including several oncogenes (e.g., N-myc, Crkl, Wnt10b, RIZ and hTERT) and genes involved in the control of cell cycle. (PMID: 20957523). It plays an important role in transcriptional activation as a member of an RNA polymerase complex. SMYD3 is frequently overexpressed in different types of cancer cells. It functions as a coactivator of Era and potentiates Era activity in response to ligand. SMYD3 as a new coactivator for ER-mediated transcription, providing a possible link between SMYD3 overexpression and breast cancer. (PMID: 19509295) The common variable number of tandem repeats polymorphism in SMYD3 is a susceptibility factor for some types of human cancer. (PMID:16155568) . SMYD3 exists some isoforms with MV 49, 43 and 30 kDa.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Xiaomei Liu	29130966	Cell Physiol Biochem	WB
Fen Long	34094832	Acta Pharm Sin B	WB
Ren Tian-nian TN	20957523	Med Oncol	WB

## 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**

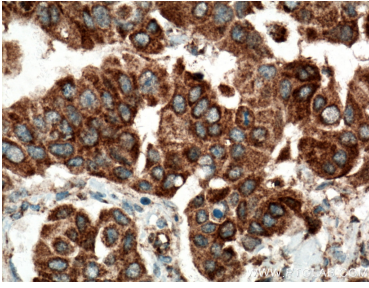
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

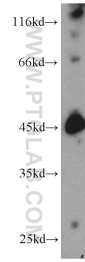
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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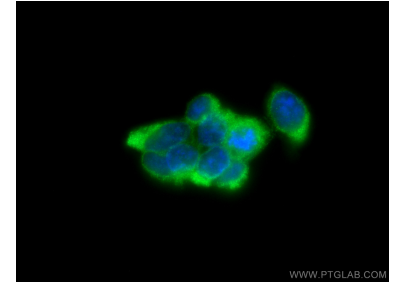
## Ausgewählte Validierungsdaten



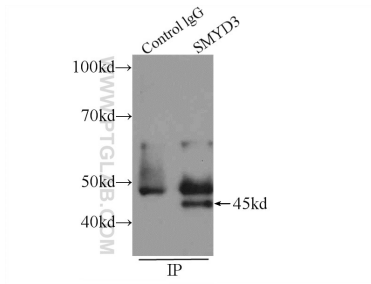
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12011-1-AP (SMYD3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 12011-1-AP (SMYD3 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SMYD3 antibody (12011-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-SMYD3 (IP:12011-1-AP, 4ug; Detection:12011-1-AP 1:500) with COLO 320 cells lysate 1280ug.