

Nur für Forschungszwecke

RGMA Polyklonaler Antikörper

Katalog-Nr.:12387-1-AP

Vorgestelltes Produkt

1 Publikationen



Allgemeine Informationen

Katalog-Nr.:
12387-1-AP

Größe:
150ul, Konzentration: 700 µg/ml von
Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

Immunogen Katalognummer:
AG3058

GenBank-Zugangsnummer:
BC015886

GeneID (NCBI):
56963

Vollständiger Name:
RGM domain family, member A

Berechnete Masse:
450 aa, 49 kDa

Beobachtete Masse:
49 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:1000
IP 0.5-4.0 µg für IP und 1:200-1:1000
für WB
IHC 1:50-1:500

Anwendungen

Geprüfte Anwendungen:

IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Ratte

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

Positivkontrollen:

WB: COLO 320-Zellen, Caco-2-Zellen, HeLa-Zellen, K-562-Zellen, Maushirngewebe, Maushodengewebe, MOLT-4-Zellen, Rattenhirngewebe, U2OS-Zellen

IP: Maushodengewebe,

IHC: humanes Hirngewebe,

Hintergrundinformationen

RGMA, also named as RGM, is a member of the repulsive guidance molecule (RGM) family that performs several functions in the developing and adult nervous system. It regulates cephalic neural tube closure, inhibits neurite outgrowth and cortical neuron branching, and the formation of mature synapses. RGMA binding to its receptor NEO1/neogenin induces activation of RHOA-ROCK1/Rho-kinase signaling pathway through UNC5B-ARHGEF12/LARG-PTK2 cascade, leading to collapse of the neuronal growth cone and neurite outgrowth inhibition. Furthermore, RGMA binding to NEO1/neogenin leads to HRAS inactivation by influencing HRAS1-PTK2-AKT1 pathway. It also functions as a bone morphogenetic protein (BMP) coreceptor that may signal through SMAD1, SMAD5, and SMAD8. RGMA is a molecular target for neuroprotection in retinal pathologies (PMID: 20457227). The frequent genetic and epigenetic inactivation of RGMA in CRCs and adenomas along with its in vitro function collectively support its role as a tumor suppressor in colon cells (PMID:19303019). There're some different MW in WB detection, 30 kDa mature form, 47-50 kDa isoforms and 60 kDa Glycosylated form.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Min Li	29935233	Brain Res Bull	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

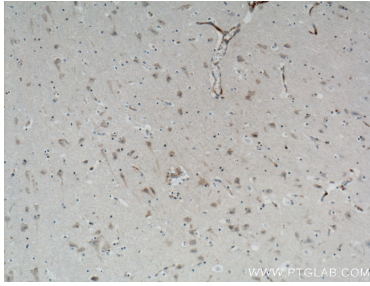
For technical support and original validation data for this product please contact:

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

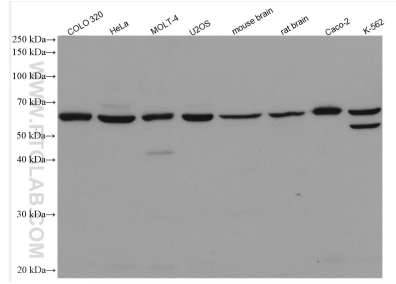
E: proteintech@ptglab.com
W: ptglab.com

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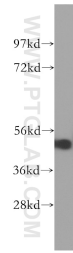
Ausgewählte Validierungsdaten



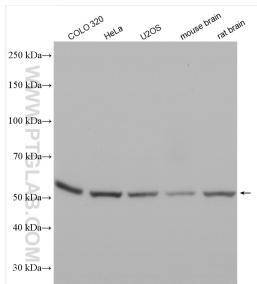
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12387-1-AP (RGMA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



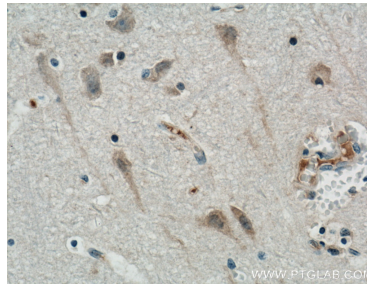
Various lysates were subjected to SDS PAGE followed by western blot with 12387-1-AP (RGMA antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



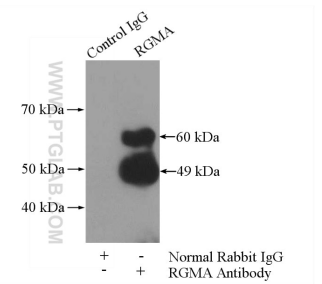
mouse testis tissue were subjected to SDS PAGE followed by western blot with 12387-1-AP (RGMA antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 12387-1-AP (RGMA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12387-1-AP (RGMA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-RGMA (IP:12387-1-AP, 4ug; Detection:12387-1-AP 1:400) with mouse testis tissue lysate 4000ug.