

For Research Use Only

VIRMA/KIAA1429 Polyclonal antibody

Catalog Number: 30166-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

30166-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32830

GenBank Accession Number:

BC003701

GeneID (NCBI):

25962

UNIPROT ID:

Q69YN4

Full Name:

KIAA1429

Observed MW:

200-210 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HeLa cells, K-562 cells, MDA-MB-231 cells, SKOV-3 cells, HEK-293T cells, SW480 cells

IHC : mouse kidney tissue,

IF/ICC : U2OS cells,

Background Information

VIRMA (KIAA1429) is a key component of m6A methyltransferase (writer) complex that include METTL3, METTL14, WTAP, VIRMA, HAKAI, ZC3H13, and RBM15. VIRMA mediates methylation in the 3'UTR and around the stop codon, thus affecting alternative polyadenylation. VIRMA has been reported to act as an oncogenic factor in breast cancer and liver cancer. KIAA1429 exhibits differential nuclear and cytoplasmic distribution in colorectal cancer samples, and high cytoplasmic expression of KIAA1429 is associated with poor response to chemotherapy. BRAF-mediated phosphorylation of KIAA1429 facilitates its aggregation in the cytoplasm. Furthermore, cytoplasmic KIAA1429 promotes WNT pathway activation by binding and stabilizing FZD7, thereby further enhancing cancer stemness and oxaliplatin resistance (PMID: 40611274). Moreover, this antibody can not recognize short isoforms.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-------------|-------------|
| Yuan Yuan Liu | 39256796 | BMC Biol | WB, IHC |
| Meihua Shan | 38224863 | Cancer Lett | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

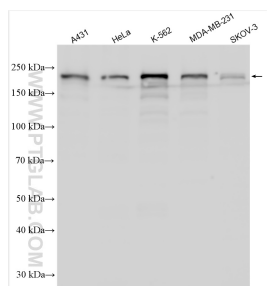
T: 4006900926

E: Proteintech-CN@ptglab.com

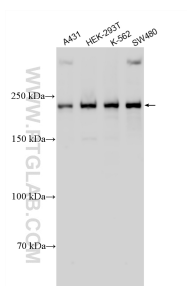
W: ptgcn.com

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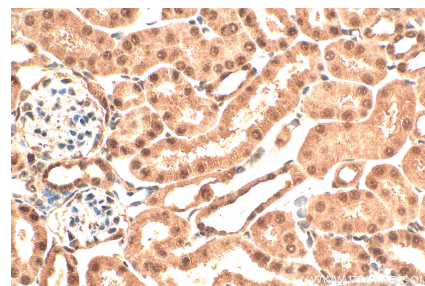
Selected Validation Data



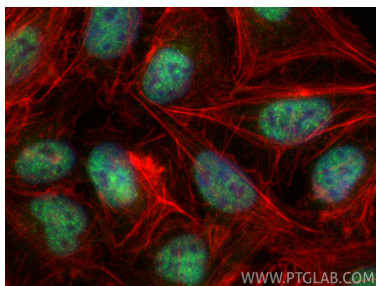
Various lysates were subjected to SDS PAGE followed by western blot with 30166-1-AP (KIAA1429 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 30166-1-AP (VIRMA/KIAA1429 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 30166-1-AP (VIRMA/KIAA1429 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using VIRMA/KIAA1429 antibody (30166-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).