

For Research Use Only

# ATG13 Recombinant antibody

Catalog Number: 82718-3-RR

Featured Product



## Basic Information

Catalog Number:

82718-3-RR

Size:

100ul, Concentration: 250 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13090

GenBank Accession Number:

BC001331

GeneID (NCBI):

9776

UNIPROT ID:

O75143

Full Name:

KIAA0652

Calculated MW:

57 kDa

Observed MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

3G14

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:250-1:1000

## Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

**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** : HeLa cells, HEK-293 cells, HEK- 293 cells, BGC-823 cells, SH-SY5Y cells, Jurkat cells, mouse brain tissue, rat brain tissue

**IHC** : human ovarian cancer,

## Background Information

ATG13 is one component protein of the ULK1 complex which is required for autophagosome formation and mitophagy. ATG13 has two nutrient regulatory phosphorylation sites and the phosphorylation status of ATG13 affect regulation of autophagy by modulating enzyme activity and cellular localization of ULK1. Besides, it has been reported the nonautophagic function of ATG13 on cardiac development for ATG13-deficient embryos show myocardial growth defects.(PMID:27387056, 26801615, 26644405)

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

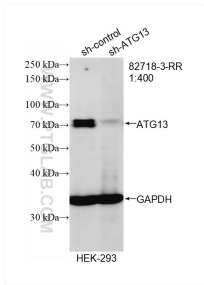
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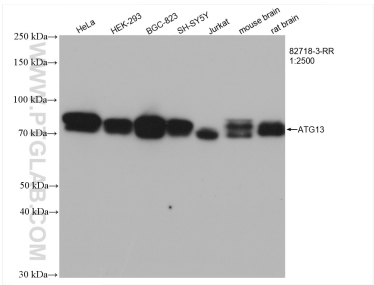
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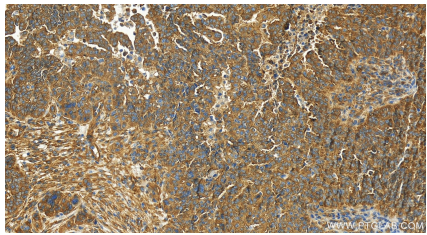
Selected Validation Data



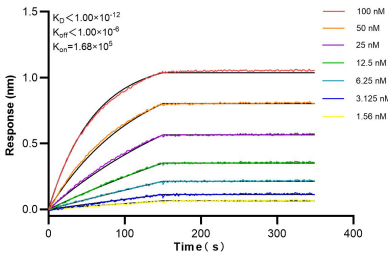
WB result of ATG13 antibody (82718-3-RR; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATG13 transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 82718-3-RR (KIAA0652 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 82718-3-RR (ATG13 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82718-3-RR against Human ATG13 were performed. The affinity constant is below 1 pM.