

For Research Use Only

ATG13 Recombinant antibody, PBS Only

Catalog Number: 82718-3-PBS

Featured Product



Basic Information

Catalog Number:

82718-3-PBS

Size:

100ug , Concentration: 1mg/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

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

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 -80°C.

Storage Buffer:

PBS Only

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

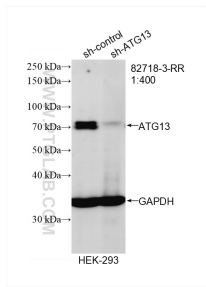
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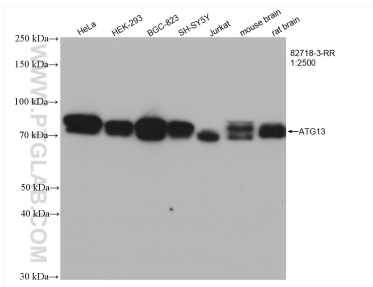
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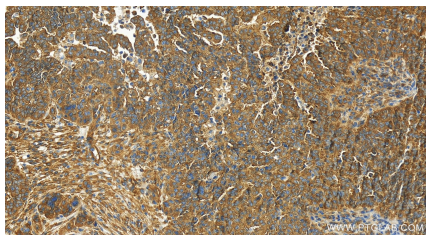
Selected Validation Data



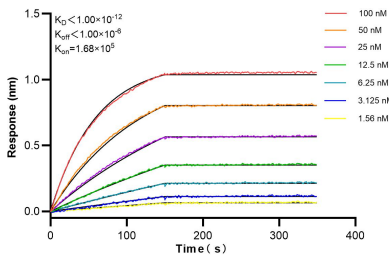
WB result of ATG13 antibody (82718-3-RR; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATG13 transfected HEK-293 cells. This data was developed using the same antibody clone with 82718-3-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 82718-3-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82718-3-PBS in a different storage buffer formulation.



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