For Research Use Only

VRK2 Recombinant antibody

Catalog Number:84663-1-RR

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Basic Information

Catalog Number:
84663-1-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4019

GenBank Accession Number:
BC027854

GeneID (NCBI):
7444

UNIPROT ID:
Q86Y07

Full Name:
vaccinia related kinase 2

Calculated MW:
508 aa, 58 kDa

Observed MW:
58 kDa

Purification Method:
Protein A purification

CloneNo.:
242180B2

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : U2OS cells, HepG2 cells, HEK-293T cells

Background Information

Vaccinia-related kinase 2 (VRK2) is a serine/threonine kinase that plays a significant role in various cellular processes, including cell survival, proliferation, and DNA damage response. The VRK2 gene is known to produce two main splice variants: VRK2A and VRK2B, with VRK2A being the predominant form in humans. VRK2 is involved in several key biological functions. It is known to enhance cell survival by acting as an anti-apoptotic factor, which is particularly crucial in cancer biology. The overexpression of VRK2 has been linked to increased drug sensitivity in cancer cells, suggesting that this kinase may play a role in therapeutic responses. Additionally, high levels of VRK2 protein have been associated with improved survival rates in specific subgroups of astrocytomas, a type of brain tumor. (PMID: 29872222; 37943248; 24079673)

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

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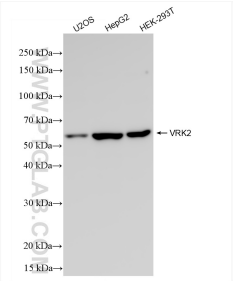
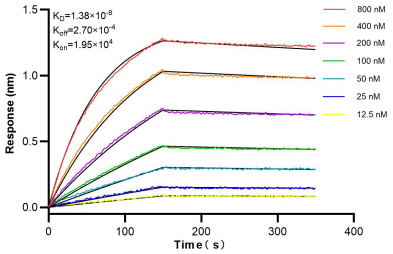
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84663-1-RR (VRK2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84663-1-RR against Human VRK2 were performed. The affinity constant is 13.8 nM.