For Research Use Only

VRK2 Recombinant antibody, PBS Only (Capture)

Catalog Number:84663-1-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
84663-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

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

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

84663-1-PBS targets VRK2 as part of a matched antibody pair:

MP01476-1: 84663-1-PBS capture and 84663-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

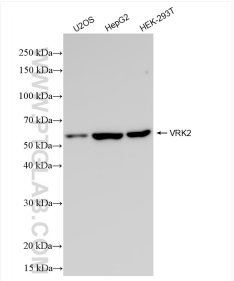
Vaccinia-related kinase 2 (VRK2) is a serine/threonine kinase that plays a significant role in various cellular processes, including cell survival, proliferation, and DNA damage response. The VRK2 gene is known to produce two main splice variants: VRK2A and VRK2B, with VRK2A being the predominant form 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

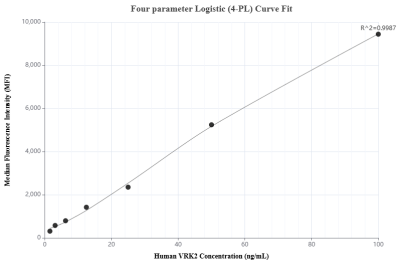
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

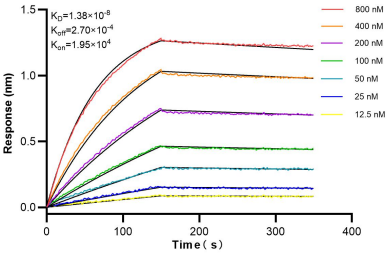
Selected Validation Data



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. This data was developed using the same antibody clone with 84663-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01476-1, VRK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84663-1-PBS. Detection antibody: 84663-2-PBS. Standard: Ag4019. Range: 1.56-100 ng/mL.



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