

WNK1 Monoclonal antibody

Catalog Number: 68149-1-Ig

Basic Information

Catalog Number:

68149-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28044

GenBank Accession Number:

BC021121

GeneID (NCBI):

65125

UNIPROT ID:

Q9H4A3

Full Name:

WNK lysine deficient protein kinase 1

Calculated MW:

251 kDa

Observed MW:

250 kDa

Purification Method:

Protein A purification

CloneNo.:

1B6A10

Recommended Dilutions:

WB 1:1000-1:5000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, A549 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells

Background Information

WNK kinase is a unique serine-threonine kinase in which the lysine (K) residue in the catalytic domain, that is found in the majority of kinases is not conserved. In mammals, there are four WNK kinase family members (WNK1-4). WNK1 has 6 isoforms, such as long form WNK1 (L-WNK1, 250 kDa, strong expression in dorsal root ganglia and spinal cord); kidney-specific isoform (KS-WNK1, 207 kDa, lacks a kinase domain). KS-WNK1 cannot phosphorylate substrates and instead interacts with and modulates the actions of other WNKs via a carboxyl terminal HQ domain.

Storage

Storage:

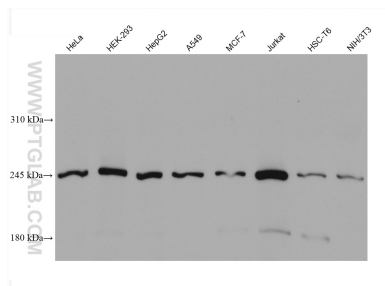
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

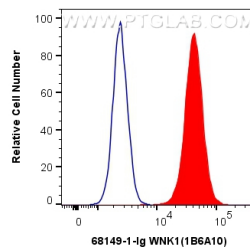
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68149-1-Ig (WNK1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



1X10⁶ HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human WNK1 (68149-1-Ig, Clone:1B6A10) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).