For Research Use Only

CoraLite® Plus 488-conjugated Phospho-GSK3A (Tyr279)/GSK3B (Tyr216) Recombinant monoclonal antibody

proteintech®
Antibodies | ELISA kits | Proteins
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Catalog Number:CL488-82371-5

Basic Information

Catalog Number:
CL488-82371-5

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC000251

GeneID (NCBI):
2932

UNIPROT ID:
P49841

Full Name:
glycogen synthase kinase 3 beta

Calculated MW:
433 aa, 48 kDa

Observed MW:
48-50 kDa

Purification Method:
Protein A purification

CloneNo.:
242663E11

Recommended Dilutions:
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse

Positive Controls:

FC (Intra) : λ phosphatase treated HEK-293T cells,

Background Information

Glycogen synthase kinase 3 (GSK3) proteins are serine/threonine kinases that were originally identified as key regulatory enzymes in glucose metabolism. There are two isoforms, GSK3 alpha and GSK3 beta, that are encoded by separate genes and that are 85% homologous to each other overall with 95% homology in the kinase domains. GSK3 beta is activated by phosphorylation of the tyrosine 216 residue (Tyr216) located in the kinase domain and inactivated by phosphorylation of the amino-terminal serine 9 residue (Ser9). GSK3 phosphorylation inhibits its catalytic activity towards its substrates, allowing cytosolic stabilization and nuclear translocation of the transcriptional targets, β -catenin and Nrf2. (PMID: 31354196 , PMID: 25750704,PMID: 24722055)

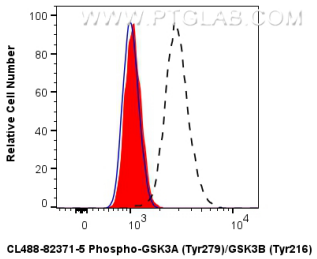
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
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



1X10^6 HEK-293T cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 ug Coralite® Plus 488 Phospho-Gsk3a (Tyr279)/Gsk3b (Tyr216) Recombinant Antibody (CL488-82371-5, Clone:242663E11)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).