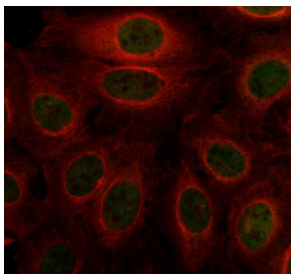
DYRK3 Antibody / Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody (FY13570)

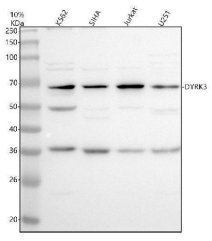
Catalog No.	Formulation	Size
FY13570	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O43781
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	This DYRK3 Antibody / Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody is intended for research use only.



DYRK3 Antibody by IF in U2OS cells. Immunofluorescence using Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody shows green DYRK3-associated signal within nuclei and surrounding cytoplasm of U2OS cells, together with red alpha-tubulin staining of the cytoskeleton. Published research documents both nuclear and cytoplasmic localization of DYRK3. Cells were treated with enzyme antigen retrieval reagent for 15 minutes and blocked with 10% goat serum. Rabbit primary antibody against DYRK3 and mouse anti-alpha-tubulin were each incubated overnight at 4oC. Fluoro488- and Cy3-conjugated secondary antibodies were used at 1:500.



DYRK3 Antibody by WB in human K562. Western blot analysis using Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody detects an immunoreactive band near 66 kDa in human K562 (lane 1); human SiHa (lane 2); human Jurkat (lane 3); human U251 (lane 4) whole-cell lysates. The calculated molecular weight is approximately 66 kDa. Reduced lysates containing 30 ug protein per lane were resolved by 10% SDS-PAGE and transferred to nitrocellulose. Following blocking with 5% nonfat milk, the membrane was incubated with primary antibody at 0.5 ug/mL overnight at 4oC and developed with an HRP-conjugated secondary antibody and chemiluminescence.

Description

DYRK3 Antibody / Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody detects DYRK3, a member of the DYRK family of protein kinases. DYRK enzymes undergo regulatory tyrosine autophosphorylation during maturation and commonly phosphorylate serine or threonine residues in their substrates. DYRK3 has been linked to cellular responses involving protein organization, stress adaptation, and the regulation of condensates formed by proteins and RNA. Its kinase activity provides a mechanism for altering the behavior of molecular assemblies without necessarily changing their constituent proteins.

Cells organize some biochemical reactions within membrane-free compartments produced through multivalent molecular interactions. These structures can form or dissolve in response to phosphorylation and changes in the intracellular environment. DYRK3 has been implicated in the dissolution of selected stress-associated condensates and in coordinating their behavior during cell-cycle transitions. These findings connect kinase signaling with the physical organization of cytoplasmic components. The effects of DYRK3 depend on its substrates and the state of the cell, and should not be assumed to apply uniformly to every biomolecular condensate. The Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody designation refers to this same molecular target.

DYRK3 has also been investigated in erythroid and hematopoietic contexts, reflecting the broader diversity of DYRK-family signaling. Related kinases such as DYRK1A and DYRK2 share conserved catalytic features but differ in regulation and biological roles. Understanding DYRK3 requires distinguishing its established kinase activity from proposed downstream functions in particular systems. NSJ Bioreagents includes DYRK3 among its protein kinase and cellular signaling targets. A DYRK3 Antibody provides a way to investigate the biological role of DYRK3 and the molecular processes associated with this target.

Explore related research targets in our Signal Transduction Antibodies for Cell Signaling and Regulatory Pathway Research collection.

Application Notes

Working dilutions of the DYRK3 Antibody / Dual specificity tyrosine-phosphorylation-regulated kinase 3 Antibody may require optimization according to the experimental protocol.

Immunogen

The DYRK3 Antibody was generated using e. coli-derived human DYRK3 recombinant protein (amino acids P22-N574).

Storage

After reconstitution, the DYRK3 Antibody may be stored at 4oC for up to one month. For longer storage, aliquot and freeze at -20oC for up to six months. Avoid repeated freezing and thawing.

Alternate Names

DYRK3 antibody, Dual specificity tyrosine-phosphorylation-regulated kinase 3 antibody, dual specificity tyrosine phosphorylation regulated kinase 3 antibody, Regulatory erythroid kinase antibody, REDK antibody, DYRK3 rabbit polyclonal antibody

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