Human/Mouse/Rat DYRK3 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 563518

Catalog Number: FAB5409U

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat DYRK3 in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 563518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DYRK3 Asn52-Glu167 Accession # O43781
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DYRK3 (Dual-specificity tyrosine [Y] phosphorylation regulated kinase 3; also REDK) is a 70-72 kDa member of the MNB/DYRK subfamily, CMGC Ser/Thr protein kinase family of enzymes. It is expressed in testis and erythroid-lineage precursors, and shows dual substrate specificity; autophosphorylation on Tyr369 to self-activate, and a Ser/Thr phosphorylation of target molecules. Substrates include CREB and Histone 2B. Human DYRK3 is 588 amino acids (aa) in length and contains one kinase catalytic domain (aa 209-522). There are two potential isoform variants that show either a six aa substitution for aa 1-26, or this same substitution in combination with a premature truncation after Gln263. DYRK3 immunoreactive proteolysis bands of 30 and 40 kDa have been detected in DYRK3-transfected cells. Over aa 52-167, human DYRK3 shares 75% aa identity with mouse DYRK3.

PRODUCT SPECIFIC NOTICES

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