

DESCRIPTION

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| 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 | <i>E. coli</i> -derived recombinant human DYRK3 Asn52-Glu167 Accession # O43781 |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

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| 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.

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