

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VRK1 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 1F6
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human VRK1 Met1-Lys396 Accession # Q99986
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

Vaccinia-related kinase 1 (VRK1; also serine/threonine-protein kinase VRK1) is a 45 kDa member of the protein kinase superfamily, the CK1 Serine/Threonine protein kinase family, and the VRK subfamily. Human VRK1 is 396 amino acids (aa) in length, and contains one protein kinase domain (aa 37-317). Human VRK1 shares 91% and 78% aa sequence identity with bovine and mouse VRK1, respectively. VRK1 is widely expressed with high expression in fetal liver, testis and thymus. VRK1 functions as a serine/threonine kinase that phosphorylates Thr-18 of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2.

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