

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human JADE-1/PHF-17 in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human Jade-2/PHF15 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 658005
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human JADE-1/PHF-17 Met1-Ser137 Accession # Q6IE81
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

Jade-1 (Gene for Apoptosis and Differentiation in Epithelia; also PHF17) is a 94 kDa member of the JADE family of proteins. It is expressed in renal tubule cells as well as embryonic primitive streak (in mouse). Initially, Jade-1 was described as a proapoptotic tumor suppressor. Jade-1 also interacts with the HBO1 complex to specifically acetylate nucleosome histones, thus acting as a transcriptional activator that likely impacts DNA replication, recombination and repair. Human Jade-1 is 842 amino acids (aa) in length. It contains one PEST domain with multiple Ser phosphorylation sites (aa 5-28), and two PHD Zinc fingers (aa 203-253 and 312-371) that are required for histone acetylation. There are two splice variants, one that is 61-64 kDa in size and contains a 7 aa substitution for aa 503-842, and another that shows a deletion of aa 99-110. Over aa 1-137, human Jade-1 shares 96% aa identity with mouse Jade-1.

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