

#### DESCRIPTION

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| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                                                                                                 |
| <b>Specificity</b>                                                                                                                                                                                      | 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. |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 658005                                                                                                                     |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                                                                                            |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human JADE-1/PHF-17<br>Met1-Ser137<br>Accession # Q6IE81                                                                          |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                       |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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