

DESCRIPTION

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|---------------------------|---|
| 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 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

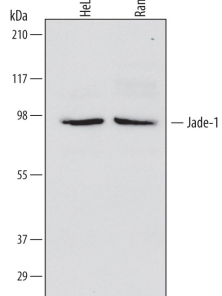
APPLICATIONS

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.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------------|---------------|
| Western Blot | 2 µg/mL | See Below |
| Immunocytochemistry | 8-25 µg/mL | See Below |

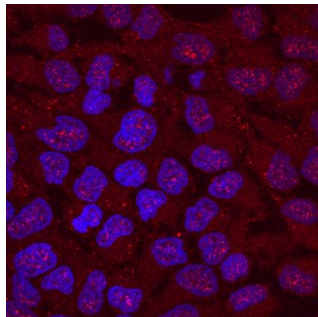
DATA

Western Blot



Detection of Human Jade-1/PHF17 by Western Blot.
Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Jade-1/PHF17 Monoclonal Antibody (Catalog # MAB6275) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Jade-1/PHF17 at approximately 92 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunocytochemistry



Jade-1/PHF17 in HeLa Human Cell Line.
Jade-1/PHF17 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human Jade-1/PHF17 Monoclonal Antibody (Catalog # MAB6275) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

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.