Human Jade-1/PHF17 Antibody

Monoclonal Mouse IgG_{2B} Clone # 658005

Catalog Number: MAB6275

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	*E. coli*-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 as a 0.2 µm filtered solution in PBS.

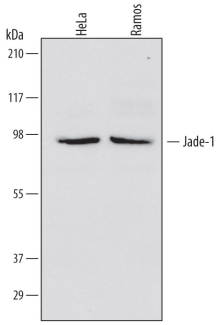
APPLICATIONS

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

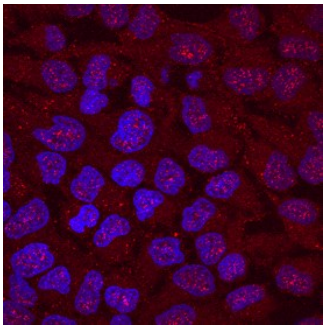
DATA

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

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.** ● 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.

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