

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxP1 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 542721
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FoxP1 Leu231-Gly420 Accession # Q9H334
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	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p> <p>Detection of Human FoxP1 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 1 µg/mL Mouse Anti-Human FoxP1 Monoclonal Antibody (Catalog # MAB4534) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific bands for FoxP1 were detected at approximately 60, 85, and 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p> <p>FoxP1 in MCF-7 Human Cell Line. FoxP1 was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human FoxP1 Monoclonal Antibody (Catalog # MAB4534) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

Forkhead Box P1 (FoxP1) is a member of the FOX family of transcription factors. Alternative splicing of human FoxP1 results in multiple transcript variants encoding different isoforms. FoxP1 contains both a DNA binding domain as well as protein-protein interaction domains. FoxP1 can homo or heterodimerize with FoxP2 and FoxP4, with dimerization necessary for DNA binding and transcriptional activity. FoxP1 has been implicated in cardiac, lung, and lymphocyte development. FoxP1 knock out mice die at embryonic day 14.5 due to heart valve and outflow tract abnormalities. FoxP1 shows both oncogenic and tumor suppressive characteristics. Human isoforms of 489 to 677 amino acids contain alternate sequences within the first 60 amino acids and/or deletion of amino acids.