

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FOXL2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1019104
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide containing human FOXL2 Accession # P58012
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.

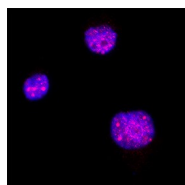
APPLICATIONS

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.

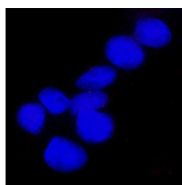
	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunocytochemistry



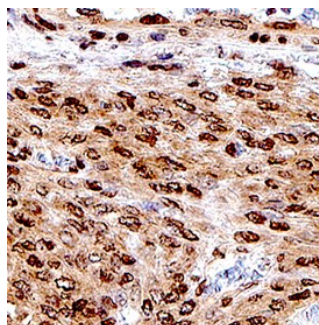
Positive (PANC-1 cells)



Negative (MCF-7 cells)

FOXL2 in PANC-1 Human Cell Line. FOXL2 was detected in immersion fixed PANC-1 human pancreatic carcinoma cell line (positive) and MCF-7 human breast cancer cell line (negative) using Mouse Anti-Human FOXL2 Monoclonal Antibody (Catalog # MAB10396) at 8 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 cell nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunohistochemistry



FOXL2 in Ovarian Cancer Tissue. FOXL2 was detected in immersion fixed paraffin-embedded sections of ovarian cancer tissue using Mouse Anti-Human FOXL2 Monoclonal Antibody (Catalog # MAB10396) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisiCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell nuclei. View our protocol for [IHC Staining with VisiCyte HRP Polymer Detection Reagents](#).

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

FOXL2 is a forkhead transcription factor which plays a role in ovarian development and function. It is transcribed very early in somatic cells of the developing gonad (before sex determination) and its expression persists in the follicular cells of the adult ovary. Females missing the FOXL2 gene appear to be male. FOXL2 prevents transdifferentiation of an adult ovary to a testis. Overexpression of FOXL2 has been implicated in endometriosis with 3-fold higher mRNA expression in endometriosis than in healthy endometrium.