

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Rex-1 in direct ELISAs and Western blots. Does not cross-react with recombinant human YY1.
Source	Monoclonal Rat IgG _{2A} Clone # 373722
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rex-1 Ser2-Lys150 Accession # NP_777560
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.

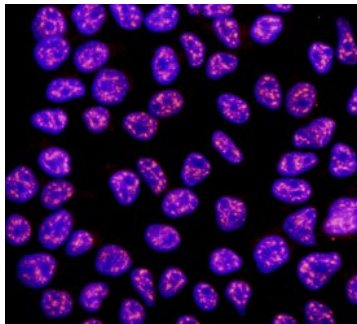
APPLICATIONS

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	Recombinant Human Rex-1
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



Rex-1 in Ntera-2 Human Cell Line.
Rex-1 was detected in immersion fixed Ntera-2 human testicular embryonic carcinoma cell line using 10 µg/mL Human Rex-1 Monoclonal Antibody (Catalog # MAB3598) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

Human Rex-1 (also Zfp-42) is a 35 kDa zinc finger family transcription factor that is highly expressed in human embryonic stem cells. It is one of several gene markers used to identify human stem cells. It is 310 amino acids in length and contains a zinc finger-binding domain between aa 214-307. Over this region, human and mouse show modest orthology at 47% aa identity.