



Biotinylated Anti-human Rex-1 Antibody

ORDERING INFORMATION

Catalog Number: BAF3598

Lot Number: XTR01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human Rex-1

Immunogen: *E. coli*-derived rhRex-1 (aa 2 - 150)

Ig Type: sheep IgG

Applications: Western blot
Immunocytochemistry

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Rex-1 (rhRex-1; aa 2 - 150; Accession # NP_777560). Human Rex-1 specific IgG was purified by human Rex-1 affinity chromatography and then biotinylated. Rex-1, also named zinc finger protein 42 (Zfp-42), is a 32 kDa transcription factor belonging to the kruppel C2H2-type zinc-finger protein family. It is a putative stem cell marker and is highly expressed in embryonic and adult stem cells. Over the region used for immunization, human and mouse Rex-1 share 47% amino acid sequence identity.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Rex-1. The detection limit for rhRex-1 is approximately 1 ng/lane under non-reducing and reducing conditions.

Immunocytochemistry - This antibody can be used at a concentration of 10 µg/mL to detect Rex-1 in NTERA2 cells. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red-coupled streptavidin at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Optimal dilutions should be determined by each laboratory for each application.