



Biotinylated Anti-human HES-4 Antibody

ORDERING INFORMATION

Catalog Number: BAF3600

Lot Number: XUL01

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 HES-4

Immunogen: *E. coli*-derived rhHES-4 (aa 94 - 221)

Ig Type: sheep IgG

Application: Western blot

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Hairy and Enhancer of Split-4 (rhHES-4; aa 94 - 221; Accession # QPHCC6). Human HES-4 specific IgG was purified by human HES-4 affinity chromatography and then biotinylated. HES-4 is a 221 aa, 24 kDa member of the HES-family of transcriptional repressors. HES-4 contains a species-specific bHLH domain (aa 33 - 93), a specific orange DNA-binding domain (aa 109 - 150), a 65 aa Proline-rich SH3-binding domain, and a WRPW Groucho/TLE interacting C-terminal motif. HES-4 is a HES-1 paralog likely to maintain stem cell pluripotency. In the region used as immunogen, the amino acid sequence of human and canine HES-4 are 80% identical.

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 human HES-4 Western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human HES-4. The detection limit for rhHES-4 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhHES-1, rhHES-2, rhHES-5, and rhHES-7.

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