



Biotinylated Anti-human/mouse HAND2 Antibody

ORDERING INFORMATION

Catalog Number: BAF3876

Lot Number: YPA01

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/mouse HAND2

Immunogen: *E. coli*-derived rhHAND2

Ig Type: goat IgG

Application: Western blot

Background

HAND2 (also known as dHAND, Thing-2 and Hed) is a 24 kDa, class B member of the basic helix-loop-helix transcription factors superfamily. HAND2 is essential for cardiac morphogenesis and required for vascular development and regulation of angiogenesis, possibly through VEGF signaling. HAND2 is also implicated in limb development acting as an upstream regulator of sonic hedgehog. Alternative initiation and internal deletions result in at least three potential HAND2 isoforms. Human and mouse HAND2 proteins are 100% identical.

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human HAND2 (aa 1 – 217; Accession # P61296). HAND2 specific IgG was purified by human HAND2 affinity chromatography and then biotinylated.

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 and mouse HAND2 western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect recombinant human and mouse HAND2. The detection limit for rhHAND2 and rmHAND2 is approximately 10 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 10% cross-reactivity with rhHAND1.

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