



## ***Biotinylated Anti-human ROBO3 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF3076

**Lot Number:** WMB01

**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 ROBO3

**Immunogen:** NS0-derived rhROBO3  
(aa 40 - 545)

**Ig Type:** goat IgG

**Application:** Western blot

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant human Roundabout homolog 3 (rhROBO3; aa 40 - 545; Accession # Q96MS0) extracellular Ig domains. Human ROBO3 specific IgG was purified by human ROBO3 affinity chromatography and then biotinylated. ROBO3 is a 210 kDa type I membrane protein that belongs to the ROBO family of Ig superfamily receptors. ROBO3 isoforms that differ in the extracellular domain at the N-terminus and/or the cytoplasmic region have been described. The extracellular domain of ROBO3 is comprised of five Ig-like C2-type domains and three fibronectin domains. ROBO receptors are axon guidance receptors that interact with SLIT ligands. ROBO/SLIT signals also regulate development and tumor angiogenesis. The amino acid sequences of the Ig domains of human and mouse ROBO3 share approximately 87% 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 human ROBO3 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 ROBO3. The detection limit for rhROBO3 is approximately 20 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 60% cross-reactivity with rmROBO3, 10% cross-reactivity with rrROBO1 and less than 1% cross-reactivity with rhROBO2 and rhROBO4.

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