



## ***Biotinylated Anti-mouse COCO Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF3356

**Lot Number:** XLH01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** mouse COCO

**Immunogen:** *E. coli*- and NS0-derived rmCOCO

**Ig Type:** goat IgG

**Application:** Western blot

### ***Preparation***

Produced in goats immunized with purified, *E. coli*- and NS0-derived, recombinant mouse COCO (rmCOCO; aa 24 - 185; Accession # NP\_95679). Mouse COCO specific IgG was purified by mouse COCO affinity chromatography and then biotinylated. COCO, also known as DAND5, Dante, and CKTSF1B3, is a member of the DAN Domain family of BMP antagonists. Mature mouse COCO is a 167 amino acid (aa) protein with an eight-membered cystine knot structure typical of DAN domain proteins. It shares 60% aa sequence identity with human COCO. COCO binds and inhibits Xnr1, BMP-4, Activin and Wnt-8. During murine development, right-sided expression of COCO contrasts with left-sided expression of Nodal, suggesting cooperation during gastrulation and embryonic left-right axis formation.

### ***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 mouse COCO western blots.

### ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse COCO. The detection limit for rmCOCO is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 10% cross-reactivity with rhCOCO.

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