

# COCO/DAND5 Antibody

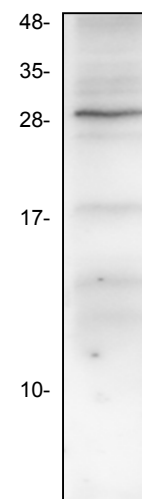
<b>ALTERNATE NAMES:</b>	DANTE, CKTSF1B3, DAN domain family member 5, Cerberus-like 2 protein
<b>CATALOG #:</b>	3626-100
<b>AMOUNT:</b>	100 µg
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide at C-terminal (BV-MM26)
<b>PURIFICATION:</b>	Affinity purified rabbit IgG
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	100 µg (0.5 mg/ml) of antibody in PBS containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH 7.2.
<b>SPECIES REACTIVITY:</b>	Human, Mouse and Rat.
<b>STORAGE CONDITIONS:</b>	Store for 1 year at -20°C from date of shipment. Avoid repeated freeze/thaw cycles.

## DESCRIPTION:

COCO, also known as DAND5, Dante, and CKTSF1B3, is a member of the DAN domain family of BMP antagonists that includes DAN (DAND1), Gremlin/Drm (DAND2), PRDC (Protein Related to Dan and Cerberus; DAND3), and Cerberus (DAND4). DAN family members contain a cysteine knot domain that is homologous to that found in other TGF- $\beta$  superfamily ligands such as BMPs that play important roles in tissue morphogenesis and developmental processes. COCO has eight Cys residues in the cysteine knot which places it in the CAN (or eight-membered ring) subfamily of BMP antagonists along with the other DAN family proteins. In *Xenopus* embryos, COCO is expressed by pluripotent ectodermal cells. Expression is abruptly downregulated prior to gastrulation, and the loss of ectodermal cell pluripotency is coincident with COCO downregulation. COCO is required for *Xenopus* left-right axis formation. It functions predominantly on the right side of the embryo, although it is equally expressed on both left and right sides. COCO binds and inhibits activin, BMP-4, GDF3/derrière, Wnt8, and Xnr1. In mouse, COCO expression is elevated on the right side of Henson's node at the early somite stage, in contrast to the left side expression of Nodal.

**APPLICATION:** Western blot: 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot of COCO/DAND5 antibody.  
Lane 1: Jurkat cell lysate.

## RELATED PRODUCTS:

- COCO Blocking Peptide (**Cat. No. 3626BP-50**)
- Gremlin-1, human recombinant (**Cat. No. 7159-10, -50**)
- Gremlin-2, human recombinant (**Cat. No. 4657-20, -100, -1000**)
- Gremlin-2 Antibody (**Cat. No. 5657-100**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**