10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COCO/DAND5 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10471

Specification

COCO/DAND5 Antibody - Product Information

Application	**WB**
Primary Accession	Q8N907
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20180**

COCO/DAND5 Antibody - Additional Information

Gene ID 199699

Positive Control	**Jurkat cell lysate**
Application & Usage	**Western blot: 1:200**

Other Names
DANTE, CKTSF1B3, DAN domain family member 5, Cerberus-like 2 protein

Target/Specificity
COCO/DAND5

Antibody Form
Liquid

Appearance
Colourless liquid

Formulation
100 µg (0.5 mg/ml) of antibody in PBS containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH 7.2.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
COCO/DAND5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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COCO/DAND5 Antibody - Protein Information

Name DAND5

Synonyms CER2, CKTSF1B3, GREM3, SP1

Function
Seems to play a role in the correct specification of the left-right axis. May antagonize NODAL and BMP4 signaling. Cystine knot- containing proteins play important roles during development, organogenesis, tissue growth and differentiation (By similarity).

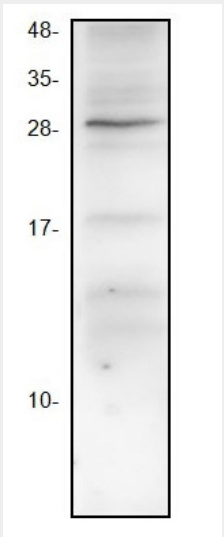
Cellular Location
Secreted.

COCO/DAND5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COCO/DAND5 Antibody - Images



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

COCO/DAND5 Antibody - Background

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 TGFβ 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 eightmembered 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 leftright 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, BMP4, 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.