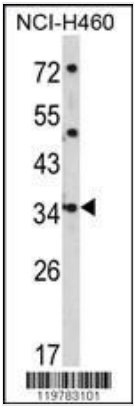
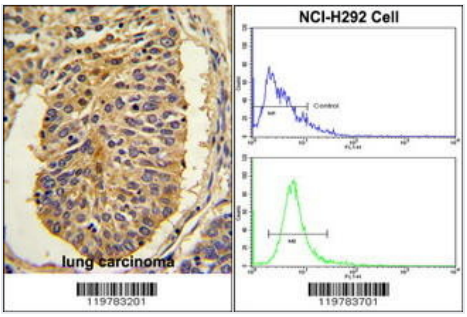
DAND4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAND4, Polyclonal Antibody
Full Product Name	DAND4, NT (Cerberus, Cerberus-related Protein, DAN Domain Family Member 4,CER1) (MaxLight 490)
Product Gene Name	anti-DAND4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CER1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30.084
OMIM	603777
3D Structure	ModBase 3D Structure for O95813
Immunogen	Synthetic peptide selected from the N-terminal region of human CER1 (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-DAND4 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-DAND4 antibody	Western Blot (WB), FLISA
Application Notes for anti-DAND4 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DAND4 antibody	MBS6471861 is an antibody targeting DAND4. Also known as DAND4, NT (Cerberus, Cerberus-related Protein, DAN Domain Family Member 4,CER1) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-DAND4 antibody	1. Tang, P.L., et.al., J. Bone Miner. Res. 24(6), 1013-1021 (2009). 2. Swinkels, M.E., et.al., Am. J. Med. Genet. A 146A(11), 1430-1438 (2008).
Other Notes	Small volumes of anti-DAND4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-DAND4 antibody
Western blot analysis of CER1 Antibody (N-term) in NCI-H460 cell line lysates (35ug/lane). CER1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-DAND4 antibody
(LEFT)Formalin-fixed and paraffin-embedded human lung carcinoma with CER1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. (RIGHT)Flow cytometric analysis of NCI-H292 cells using CER1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAND4. It may not necessarily be applicable to this product.

NCBI GI #	4885135
NCBI GeneID	9350
NCBI Accession #	NP_005445
UniProt Primary Accession #	O95813
UniProt Related Accession #	O95813
GenBank Nucleotide #	NP_005445.1
NCBI Official Full Name	cerberus
NCBI Official Synonym Full Names	cerberus 1, DAN family BMP antagonist
NCBI Official Symbol	CER1
NCBI Official Synonym Symbols	DAND4
UniProt Protein Name	Cerberus
UniProt Synonym Protein Names	Cerberus-related protein; DAN domain family member 4
UniProt Gene Name	CER1
UniProt Synonym Gene Names	DAND4
UniProt Entry Name	CER1_HUMAN
NCBI Protein Information	cerberus
NCBI Summary for DAND4	This gene encodes a cytokine member of the cysteine knot superfamily, characterized by nine conserved cysteines and a cysteine knot region. The cerberus-related cytokines, together with Dan and DRM/Gremlin, represent a group of bone morphogenetic protein (BMP) antagonists that can bind directly to BMPs and inhibit their activity. [provided by RefSeq, Jul 2008]

UniProt Comments for DAND4	CER1: Cytokine that may play a role in anterior neural induction and somite formation during embryogenesis in part through a BMP-inhibitory mechanism. Can regulate Nodal signaling during gastrulation as well as the formation and patterning of the primitive streak. Belongs to the DAN family. Protein type: Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted Chromosomal Location of Human Ortholog: 9p23-p22 Cellular Component: extracellular space; extracellular region Molecular Function: morphogen activity; protein homodimerization activity; cytokine activity Biological Process: BMP signaling pathway; anterior/posterior pattern formation; negative regulation of cell proliferation; nervous system development; negative regulation of activin receptor signaling pathway; negative regulation of Wnt receptor signaling pathway; ureteric bud development; gastrulation; determination of dorsal identity; bone mineralization; cell migration involved in gastrulation; negative regulation of BMP signaling pathway; anterior/posterior axis specification
Research Articles on DAND4	**1.** Cerberus binds and inhibits Nodal, Activin B, BMP-6, and BMP-7 but not BMP-2 or Activin A.
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