

Product datasheet for **DM3537P**

Nbl1 Rat Monoclonal Antibody [Clone ID: 7K12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7K12
Applications:	WB
Recommended Dilution:	Western Blot: 1/500 - 1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Mouse Recombinant DAN
Specificity:	This antibody detects Mouse DAN in Western blotting.
Formulation:	0.2 µm filtered PBS State: Purified State: Lyophilized purified IgG fraction from Culture Supernatant Stabilizer: None
Reconstitution Method:	Restore with 0.2 ml sterile PBS and the final concentration is 0.5 mg/ml.
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neuroblastoma, suppression of tumorigenicity 1
Database Link:	Entrez Gene 17965 Mouse Q61477



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Background:

DAN (differential screening-selected gene aberrative in neuroblastoma) was initially identified as a gene whose expression is downregulated in srctransformed rat fibroblasts. DAN has now been shown to be a prototypical member of the DAN family of secreted glycoproteins that are putative BMP antagonists. DAN family members share a cysteine-rich domain that is structurally related to the cysteine-knot motif found in TGF β superfamily ligands. There are at least five mouse DAN family members, including DAN, Gremlin/DRM, Cer1 (Cerberus-related), Dante and PRDC (protein-related to DAN and cerberus). Additional DAN family members include Xenopus Cerberus, chick Caronte, and C. elegans CeCan 1. Murine DAN binds BMP2 in immunoprecipitation experiments and acts as a BMP antagonist in Xenopus animal cap explants. The DAN family of proteins are thought to act as antagonists by binding BMP ligands and preventing their interactions with signaling receptor complexes. Recombinant mouse DAN have been shown to bind BMP4 in a functional ELISA. It is likely the various DAN family members and other TGF β BMP antagonists including Noggin, Chordin, Follistatin, and TSG can selectively antagonize the activities of different subsets of TGF β superfamily ligands. These antagonists represent one of the many elaborate regulatory mechanisms that have evolved to control the bioactivities of the TGF β superfamily ligands.

Synonyms:

DAN, DAND1