



## Monoclonal Anti-mouse DAN Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB7552

**Clone:** 123224

**Lot Number:** CAPX01

**Size:** 500 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse DAN

**Immunogen:** NS0-derived rmDAN

**Ig class:** rat IgG<sub>2A</sub>

**Recommended Applications:**

ELISA capture  
Western blot

### Background

Differential screening-selected gene Aberrant in Neuroblastoma (DAN), also known as neuroblastoma, suppression of tumorigenicity 1 (Nbl1) is a tumor suppressor that binds to and antagonizes the signaling activity of BMP family members.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse DAN (rmDAN; aa 17 - 178; Accession # Q61477). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 500 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 detects rmDAN in direct ELISAs and Western blots. In Western blots, this antibody shows approximately 10% cross-reactivity with rhDAN, rhCOCO, rchCaronte, and no cross reactivity with rmGremlin.

### Applications

**ELISA capture** - This product can be used as a capture reagent in a mouse DAN sandwich immunoassay in combination with biotinylated mouse DAN detection antibody (Cat. # BAF755) and recombinant mouse DAN (Cat. # 755-DA) as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at [www.RnDSystems.com/go/MAPELISA](http://www.RnDSystems.com/go/MAPELISA). In this format, this antibody shows no cross-reactivity with rhDAN, rhCOCO, rmBMP-4, rmGremlin or rchCaronte.

**Western blot** - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse DAN. Using a colorimetric detection system, the detection limit for rmDAN is approximately 25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

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