

**RPES8343**

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## Product Information

<b>Product SKU:</b>	RPES8343	<b>Expression Host:</b>	Mammalian	<b>Size:</b>	20µg
<b>Tag:</b>	C-Fc	<b>Reactivity:</b>	Human	<b>Accession:</b>	P41271

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## Additional Information

<b>Calculated MW:</b>	43.1 kDa	<b>Observed MW:</b>	55 kDa
<b>Sequence:</b>	Ala17-Asp181		

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## Protein Information

**Background:** The Dan (Differential screening-selected gene aberrative in neuroblastoma , also known as N03) gene was first identified as the putative rat tumor suppressor gene and encodes a protein structurally related to Cerberus and Gremlin in the vertebrates. It is a founding member of the DAN family of secreted proteins , acts as an inhibitor of cell cycle progression , and is closely involved in retinoic acid-induced neuroblastoma differentiation. There are at least five mammalian protein members in the evolutionarily conserved Dan family including DAN , Gremlin/DRM , Cer1 (Cerberus-related) , Dante , and PRDC (protein related to DAN and Cerberus) , and share the C-terminal cystine-knot motif. As a secreted glycoprotein , DAN is a member of a class of glycoproteins shown to be secreted inhibitors of the transforming growth factor-beta (TGF-beta) and bone morphogenic protein pathways. It binds to BMPs and preventing their interactions with signaling receptor complexes , and accordingly regulates the processes of embryonic development and tissue differentiation. DAN gene product may have an important role in the regulation of the entry of cells into the S phase. Besides , the DAN gene product possesses an ability to revert phenotypes of transformed rat fibroblasts and represents a candidate tumor suppressor gene for neuroblastoma.

**Synonyms:** NBL, DAND, DAN, DAND1, NBL1, D1S1733E, DAN domain family member 1, DAND 1, Differential screening selected gene aberrant in neuroblastoma, MGC8972, NBL 1,

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Neuroblastoma candidate region suppression of tumorigenicity 1, Neuroblastoma suppression of tumorigenicity 1, Neuroblastoma suppressor of tumorigenicity 1, NO3, Zinc finger protein DAN

**Endotoxin:** < 1.0 EU/mg of the protein as determined by the LAL method

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Bio-Activity:** Not validated for activity

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.