Recombinant Canine TACSTD2 Protein, His-tagged

Cat. No. TACSTD2-11164C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine TROP-2, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 39 - Thr 281 (Accession # XP_852842.5). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 39
Species	Canine
Source	HEK293
ProteinLength	39-281 aa
Description	TROP-2 is a single-copy gene in human cells, and encodes a type-1 transmembrane glycoprotein which is over-expressed in various malignancies, also referred to as tumor associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1. TROP-2 is related to epithelial cell adhesion molecule (EpCAM), also called TROP-1, gp40, and KSA. Trop-1 and Trop-2 are homologous to serum IGF-II-binding proteins and appear as signal transducers. Thus, they likely represent novel cell-surface receptors and may play a role in regulating the growth of carcinoma cells.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 29.4 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.

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Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TACSTD2 tumor associated calcium signal transducer 2 [Canis lupus familiaris (dog)]
Official Symbol	TACSTD2
Synonyms	TACSTD2; tumor associated calcium signal transducer 2; tumor associated calcium signal transducer 2; tumor-associated calcium signal transducer 2
Gene ID	610286
mRNA Refseq	XM_847749
Protein Refseq	XP_852842
UniProt ID	A0A8C0KI11

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