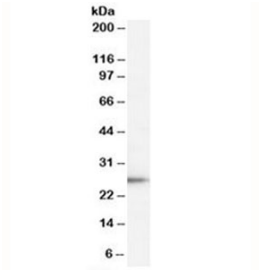
TPD52 Goat Polyclonal Antibody / Tumor Protein D52 Antibody (R36165)

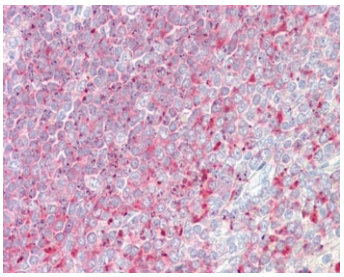
Catalog No.	Formulation	Size
R36165-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Dog
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	7163
Localization	Cytoplasmic
Applications	Western blot: 1-3ug/ml IHC (FFPE): 3.75ug/ml ELISA (peptide) LOD: 1:8000
Limitations	This TPD52 Goat Polyclonal Antibody / Tumor Protein D52 Antibody is available for research use only.



TPD52 Goat Polyclonal Antibody Western Blot Analysis of Human Lymph Node Lysate. Western blot analysis of human lymph node lysate using Tumor Protein D52 Antibody at 1 ug/ml. An immunoreactive band is visible near the 22 kDa marker, within the predicted molecular weight range of approximately 20-26 kDa for TPD52 isoforms 1-7.



TPD52 Goat Polyclonal Antibody IHC Staining of Human Spleen Tissue. Immunohistochemical analysis of FFPE human spleen tissue using Tumor Protein D52 Antibody at 3.75 ug/ml. Red chromogenic staining is distributed among cells throughout the splenic tissue, with cytoplasmic immunoreactivity visible against the hematoxylin counterstain. Heat-induced epitope retrieval was performed by steaming sections in pH 6 citrate buffer, followed by alkaline phosphatase-based detection.

Description

TPD52 Goat Polyclonal Antibody / Tumor Protein D52 Antibody targets tumor protein D52 (TPD52), a small cytoplasmic protein associated with intracellular vesicle trafficking, membrane organization, and cellular proliferation. TPD52 belongs to a conserved protein family that includes TPD52L1 and TPD52L2, whose members share structural features involved in protein interactions and intracellular transport. Originally identified through studies of gene amplification in breast cancer, TPD52 has subsequently been investigated in multiple biological contexts involving membrane trafficking, secretory activity, and growth regulation. Its functions are influenced by interactions with related family members and proteins associated with intracellular membrane compartments.

TPD52 contains a conserved coiled-coil domain that facilitates the formation of homomeric and heteromeric complexes with other D52 family proteins. These interactions contribute to its association with vesicular transport machinery and membrane-associated regulatory proteins. TPD52 has been implicated in calcium-dependent secretory processes and the organization of intracellular vesicle populations. Its distribution within the cytoplasm can vary according to cellular activity, reflecting its participation in dynamic membrane transport events. Interactions with proteins involved in vesicle docking and membrane fusion may further influence its role in regulated secretion.

In addition to membrane trafficking, TPD52 has been associated with pathways controlling cellular proliferation, survival, and migration. Elevated expression has been reported in several malignancies, including breast, prostate, and ovarian cancers. In certain tumors, increased TPD52 abundance is associated with gene amplification, while other regulatory mechanisms may contribute to altered expression. Experimental investigations have linked TPD52 to changes in cell growth and tumor-associated behavior, although its biological effects depend on cellular context. Interactions among D52 family proteins may also modify signaling responses and intracellular protein localization.

The relationship between TPD52 expression, intracellular transport, and proliferative signaling makes it relevant to studies of cellular organization and cancer biology. Its involvement in vesicle trafficking provides a functional connection between membrane dynamics and the regulation of cellular activity. Research using TPD52 Goat Polyclonal Antibody can help investigate tumor protein D52 distribution and its relationship to secretory mechanisms, intracellular transport, and cancer-associated changes in protein expression.

For additional research options, explore our TPD52 Antibody, a rabbit polyclonal reagent with Western blot, IHC, flow cytometry, and knockout validation data.

Application Notes

Optimal dilution of the TPD52 Goat Polyclonal Antibody / Tumor Protein D52 Antibody should be determined by the researcher.

Immunogen

Amino acids TEPLPEKTQES were used as the immunogen for this TPD52 Goat Polyclonal Antibody. This sequence is common to isoforms 1-7 (UniProt #P55327).

Storage

Aliquot and store the TPD52 Goat Polyclonal Antibody at -20oC.

Alternate Names

Tumor protein D52 goat polyclonal antibody, D52 goat polyclonal antibody, Goat anti-TPD52 antibody, Goat anti-tumor protein D52 antibody, TPD52 family protein antibody, Tumor-associated protein D52 antibody, D52 cytoplasmic protein antibody, TPD52 vesicle-associated protein antibody, Tumor protein D52 family antibody, TPD52 protein antibody

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