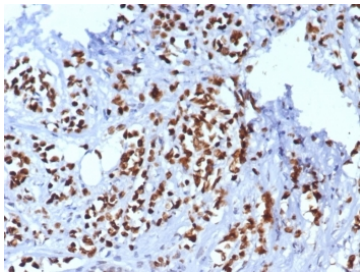
TRPS1 Antibody / Tricho-rhino-phalangeal syndrome type I [clone TRPS1/8008R] (V5265)

Catalog No.	Formulation	Size
V5265-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5265-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5265SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

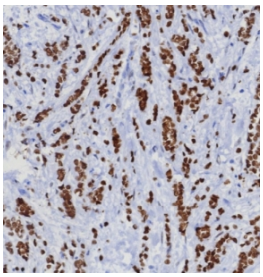
Recombinant RABBIT MONOCLONAL

Bulk quote request

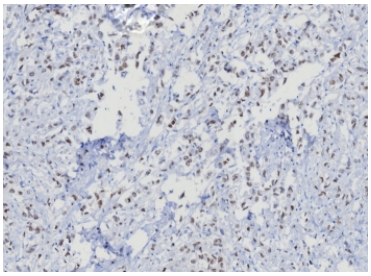
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TRPS1/8008R
Purity	Protein A/G affinity
UniProt	Q9UHF7
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This TRPS1 antibody is available for research use only.



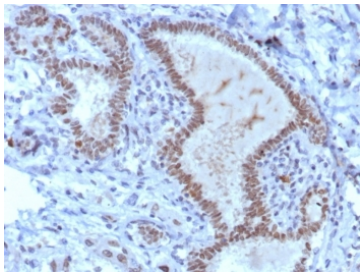
TRPS1 Antibody immunohistochemistry analysis in human breast tissue. FFPE human breast tissue stained with TRPS1 antibody shows strong nuclear staining in epithelial cells, consistent with TRPS1 localization as a transcription factor. A recombinant rabbit monoclonal antibody (clone TRPS1/8008R) was used for detection. Antigen retrieval was performed using pH 9 Tris-EDTA buffer with heat-induced epitope retrieval, and hematoxylin counterstain highlights nuclei (blue).



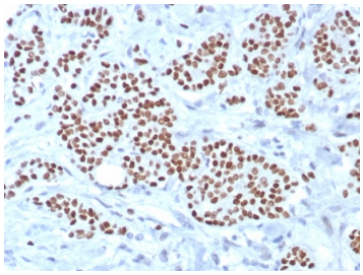
TRPS1 Antibody immunohistochemistry analysis in human mammary gland carcinoma tissue. FFPE human mammary gland carcinoma stained with TRPS1 antibody demonstrates strong nuclear staining in tumor epithelial cells, consistent with TRPS1 localization as a transcription factor and its established role as a breast cancer marker. Detection was performed using recombinant rabbit monoclonal clone TRPS1/8008R. Antigen retrieval was carried out using pH 9 Tris-EDTA buffer with heat-induced epitope retrieval, and hematoxylin counterstain highlights nuclei (blue).



TRPS1 Antibody immunohistochemistry analysis in human uterus tissue. FFPE human uterus tissue stained with TRPS1 antibody demonstrates nuclear staining in epithelial and stromal cell populations, consistent with TRPS1 localization as a transcription factor. Detection was performed using recombinant rabbit monoclonal clone TRPS1/8008R at 2 ug/ml. Antigen retrieval was carried out using pH 9 Tris-EDTA buffer with heat-induced epitope retrieval, and hematoxylin counterstain highlights nuclei (blue).



TRPS1 Antibody immunohistochemistry analysis in triple negative human breast carcinoma tissue. FFPE triple negative human breast carcinoma stained with TRPS1 antibody demonstrates strong nuclear staining in tumor epithelial cells, consistent with TRPS1 localization as a transcription factor and its established role as a breast cancer marker. Detection was performed using recombinant rabbit monoclonal clone TRPS1/8008R at 2 ug/ml. Antigen retrieval was carried out using pH 9 Tris-EDTA buffer with heat-induced epitope retrieval, and hematoxylin counterstain highlights nuclei (blue).



TRPS1 Antibody immunohistochemistry analysis in human breast carcinoma tissue. FFPE human breast carcinoma stained with TRPS1 antibody demonstrates strong nuclear staining in tumor epithelial cells, consistent with TRPS1 localization as a transcription factor and its role as a breast cancer-associated marker. Detection was performed using recombinant rabbit monoclonal clone TRPS1/8008R. Antigen retrieval was carried out using pH 9 Tris-EDTA buffer with heat-induced epitope retrieval, and hematoxylin counterstain highlights nuclei (blue).

Description

Tricho-rhino-phalangeal syndrome type I protein (TRPS1) is a nuclear transcription factor belonging to the GATA-type zinc finger protein family, where it regulates gene expression involved in development and epithelial differentiation. TRPS1 Antibody is used to detect TRPS1 expression in tissue and cellular systems, supporting studies of transcriptional regulation and tumor-associated signaling.

TRPS1 antibody, also known as Tricho-rhino-phalangeal syndrome type I antibody or zinc finger transcription factor TRPS1 antibody, recognizes a nuclear protein that binds DNA and interacts with chromatin remodeling complexes to regulate transcription. TRPS1 plays an essential role in skeletal development, hair follicle formation, and epithelial cell differentiation, and is widely used as a nuclear marker in breast cancer and other epithelial malignancies due to its consistent nuclear staining pattern.

This recombinant rabbit monoclonal TRPS1 Antibody was generated to provide high specificity and reproducible detection of TRPS1 across experimental systems. Recombinant monoclonal antibodies offer reduced background and improved consistency, making them well suited for detecting transcription factors that require precise nuclear localization. Clone TRPS1/8008R provides strong nuclear signal in epithelial-derived tissues, supporting its use in tumor characterization and cellular identity studies.

TRPS1 is primarily localized to the nucleus, consistent with its function as a transcriptional regulator. It is expressed in tissues including breast epithelium, hair follicles, and skeletal structures, with altered expression linked to developmental disorders such as tricho-rhino-phalangeal syndrome and to tumor progression in epithelial cancers. Its involvement in transcriptional repression and differentiation pathways makes it a valuable target for studying gene regulation and cancer biology.

A recombinant rabbit monoclonal TRPS1 Antibody is suitable for detecting TRPS1 expression in research applications focused on epithelial biology, cancer diagnostics, and transcriptional regulation. Its nuclear localization and specificity support detailed analysis of tumor cells and tissue architecture.

Application Notes

Optimal dilution of the TRPS1 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 900-1100) from the human protein was used as the immunogen for the TRPS1 antibody.

Storage

Aliquot the TRPS1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

TRPS1 antibody, Tricho rhino phalangeal syndrome type I protein antibody, Zinc finger transcription factor TRPS1 antibody, TRPS1 protein antibody