

TMPRSS4 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50359

Clone# BP6327

Predicted Molecular Wt: 49kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q9NRS4

Background:

TMPRSS4 is a cell-surface-anchored transmembrane serine protease that belongs to the TTSP (type II transmembrane serine protease) family—enzymes increasingly recognized as pivotal regulators of diverse biological processes whose dysregulation is intimately linked to human pathologies, most notably the initiation and progression of cancer.

TMPRSS4 is mainly low level expressed in the gastrointestinal and genitourinary tracts. In tumor contexts, TMPRSS4 has been detected in the epithelial malignancies, such as lung adenocarcinoma, lung squamous-cell carcinoma and breast carcinoma.

TMPRSS4 has emerged as a significant biomarker in clinical pathology, primarily for prognostic stratification and diagnosis in specific carcinomas. Its high expression is consistently associated with aggressive tumor features, including advanced stage, lymph node metastasis and shorter overall and recurrence-free survival in cancers such as gastric, lung (particularly squamous cell carcinoma) and breast carcinoma.

Subcellular location:

Membrane and cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

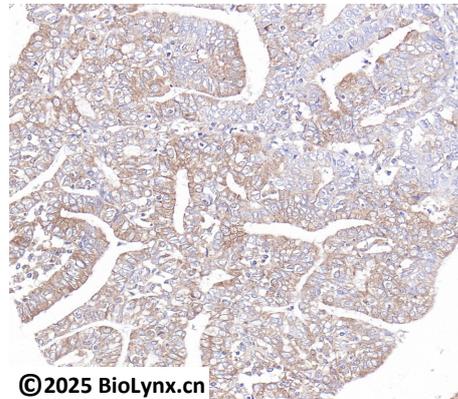
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Kim, S. et al. (2023) Exp Mol Med. 55: 716-724.
- Valero-Jiménez, A. et al. (2018) PLoS One. 13: e0192963.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma labelling TMPRSS4 with BP6327.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.