

TSG101 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50366

Clone# BP6334

Predicted Molecular Wt: 44kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q99816

Background:

TSG101, component of the ESCRT-I complex, a regulator of vesicular trafficking process. TSG101 binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). It's involved in the budding of many viruses through an interaction with viral proteins that contain a late-budding motif P-[ST]-A-P. This interaction is essential for viral particle budding of numerous retroviruses. It's required for the exosomal release of SDCBP, CD63 and syndecan.

TSG101 is expressed most strongly in heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.

TSG101 has notable clinical detection value in various cancers. Its reduced expression in lung squamous cell carcinoma and adenocarcinoma correlates with poor differentiation and lymph node metastasis, serving as a marker for evaluating the invasion and metastasis of these lung cancers. It has prognostic significance in liver cancer (unfavorable prognosis with high expression) and kidney cancer (favorable prognosis with high expression). Additionally, its abnormal splicing and mutations are common in breast cancer, and its overexpression can induce mammary carcinoma, which provides references for breast cancer pathogenesis research and targeted therapy exploration.

Subcellular location:

Cytoplasm/Nucleus

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:

The synthetic peptide corresponding to Human TSG101 aa 25-74.

Storage Buffer:

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

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

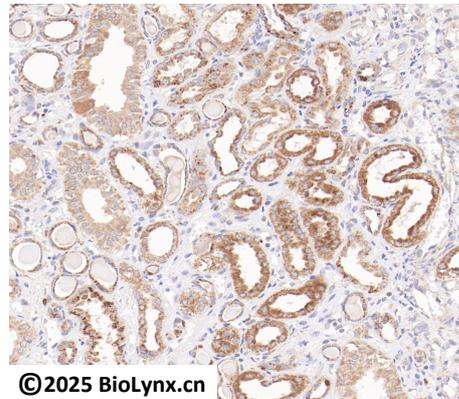
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Yang L, et al. J Transl Med. 23(1):814, 2025 Jul 23.
2. Dennaoui R, et al. Breast Cancer Res. 27(1):126, 2025 Jul 7.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney labelling TSG101 with BP6334.

Product QC'd by: 

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