

ProteinFind® Anti-TSG101 Rabbit Monoclonal Antibody

Please read the manual carefully before use.

Cat. No. HE907

Storage: PBS (pH7.4), 150 mM NaCl, 0.02% Sodium Azide, 50% Glycerol; at -20°C for two years, avoid repeated freeze-thawing.

Description

Tumor susceptibility gene 101 (TSG101) was discovered in 1996 and was located in the short arm of human chromosome 11 15.1-15.2^[1]. Currently, TSG101 is considered to be a multifunctional domain protein containing three main functional regions: the first functional region is N-terminal domain containing Ubiquitin-conjugated (UBC) domain similar to the ubiquitin-ligase catalyzed domain; the second functional region has three independent DNA domains, namely transcription factor characteristic region, phage receptor domain similar region and proline rich region; and the third functional region is the stability box (SB) domain at the C-terminal. TSG101 is a dominant regulator of ubiquitination, which regulates ubiquitin-mediated protein degradation, affects cytokinesis, transcriptional regulation, cell cycle and proliferation, and viral release^[2]. Studies have found that TSG101 is abnormally expressed in a variety of tumors. The expression of TSG101 in cervical cancer tissues is significantly lower than that in normal cervical tissues, and the expression in lung squamous cell carcinoma and lung adenocarcinoma tissues is lower than that in adjacent normal lung tissues^[3,4].

Species Reactivity: Human, mouse and rat (the results of species reactivity were determined by WB experiment).

Clone Number: Trans-1A6

Antibody Isotype: Rabbit IgG

Immunogen

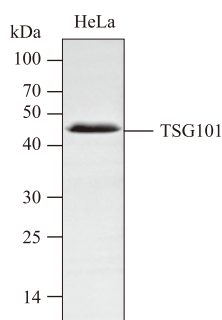
- Recombinant human TSG101 protein
- Entrez Gene ID: 7251
- UniProt ID: Q99816

Applicable Experiments and Dilution

- WB: 1:1000-1:4000 dilution is recommended.
- IP: 1:100 dilution is recommended.
- IF: 1:100 dilution is recommended.
- FC: 1:100 dilution is recommended.

Positive Control Cell Line: HeLa cells

★ **Advanced Validation:** The antibody was validated by the relative expression of protein levels in different cell lines.

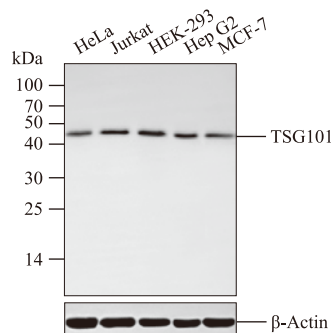


WB: ProteinFind® Anti-TSG101 Rabbit Monoclonal Antibody for detection of TSG101 protein expression in HeLa cells.

Dilution ratio of primary antibody: 1:1000

Predicted molecular weight: 44 kDa

Actual molecular weight: 44 kDa



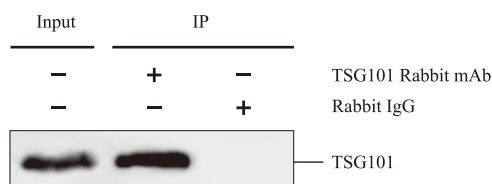
WB: ProteinFind® Anti-TSG101 Rabbit Monoclonal Antibody was used to detect the expression of TSG101 in HeLa, Jurkat, HEK-293, Hep G2 and MCF-7 positive cells.

Dilution ratio of primary antibody: 1:1000

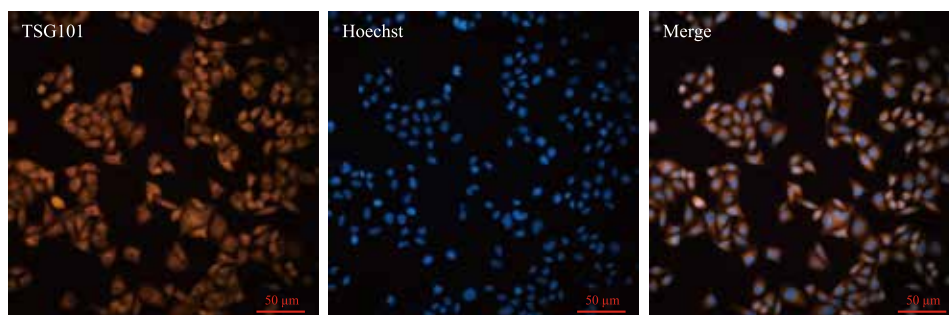
Predicted molecular weight: 44 kDa

Actual molecular weight: 44 kDa

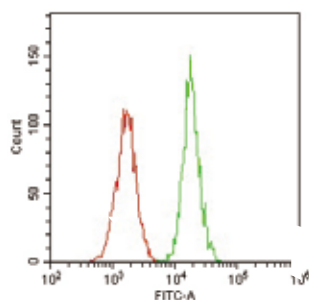




IP: Results of *ProteinFind*[®] Anti-TSG101 Rabbit Monoclonal Antibody for IP detection of HeLa cell lysate.
5% Input was used in the first lane, *ProteinFind*[®] Anti-TSG101 Rabbit Monoclonal Antibody was used in the second lane,
and rabbit IgG negative control was used in the third lane.
Antibody dilution ratio: 1:100



IF: *ProteinFind*[®] Anti-TSG101 Rabbit Monoclonal Antibody (orange) was used to detect the localization of TSG101 in HeLa cells.
Hoechst is used to label the nucleus (blue).
Dilution ratio of primary antibody: 1:100



FC: *ProteinFind*[®] Anti-TSG101 Rabbit Monoclonal Antibody (green) for FC detection of HeLa cells.
The negative Control was Rabbit IgG Isotype Control (red).
Dilution ratio of primary antibody: 1:100

References

- [1] Li L, Li X, Francke U, et al. The TSG101 tumor susceptibility gene is located in chromosome 11 band p15 and is mutated in human breast cancer [J]. Cell, 1997, 88(1): 143-54.
- [2] Hon KW, Ab-Mutalib NS, Abdullah NMA, et al. Extracellular Vesicle-derived circular RNAs confers chemoresistance in Colorectal cancer [J]. Sci Rep, 2019, 9(1): 16497.
- [3] Broniarczyk J, Olejnik-Schmidt AK, Luczak MW, et al. Analysis of expression and structure of the TSG101 gene in cervical cancer cells [J]. Int J Mol Med, 2010, 25(5): 777-83.
- [4] Cai C, Zhang D, Lu P, et al. Expression and its significance of TSG101 in lung cancer tissue and lung cancer cell lines. [J]. Zhongguo Fei Ai Za Zhi, 2008, 11(2): 172-7.

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