Datasheet for ABIN968912

anti-TSG101 antibody (AA 229-319)

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Overview

Quantity:	50 µg
Target:	TSG101
Binding Specificity:	AA 229-319
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TSG101 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Human TSG101 aa. 229-319
Clone:	51-TSG101
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	TSG101
Alternative Name:	TSG101 (TSG101 Products)
Background:	Tumor Susceptibility Gene 101 (TSG101) was identified in a random mutagenesis screen for potential tumor suppressors in NIH 3T3 cells. Altered transcripts of this gene have been detected in sporadic breast cancers and many other human malignancies. Though the function of TSG101 is not clearly understood, its protein structure includes motifs involved in transcription regulation, and TSG101 has been shown to modulate the activation of steroid hormone receptors. In addition, TSG101 may have a role in regulating ubiquination. The N-terminal region of TSG101 contains a domain that resembles the catalytically active region of ubiquitin conjugases. However, TSG101 lacks an active-site cysteine crucial to the function of these conjugases. Interestingly, TSG101 interferes with MDM2 ubiquination leading to a decrease in MDM2 decay and down-regulation of p53 protein. Thus, TSG101 may function as a dominant-negative inhibitor of ubiquination in pathways where protein expression is tightly regulated. Synonyms: Tumor Susceptibility Gene 101
Molecular Weight:	46 kDa

Application Details

Comment:	Related Products: ABIN968586, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

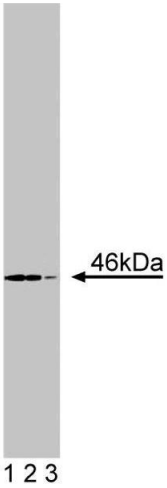
Product cited in:

Li, Liao, Ruland, Mak, Cohen: "A TSG101/MDM2 regulatory loop modulates MDM2 degradation and MDM2/p53 feedback control." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 98, Issue 4, pp. 1619-24, (2001) (PubMed).

Zhong, Chen, Chen, Chen, Lee: "Identification of cellular TSG101 protein in multiple human breast cancer cell lines." in: **Cancer research**, Vol. 57, Issue 19, pp. 4225-8, (1997) (PubMed).

Li, Cohen: "Tsg101: a novel tumor susceptibility gene isolated by controlled homozygous functional knockout of allelic loci in mammalian cells." in: **Cell**, Vol. 85, Issue 3, pp. 319-29, (1996) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of TSG101 on a K-562 cell lysate (Human bone marrow myelogenous leukemia, ATCC CCL-243). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-TSG101 antibody.