

## RNF40 polyclonal antibody

Catalog: BS91173

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. This protein was reported to interact with the tumor suppressor protein RB1. Studies of the rat counterpart suggested that this protein may function as an E3 ubiquitin-protein ligase, and facilitate the ubiquitination and degradation of syntaxin 1, which is an essential component of the neurotransmitter release machinery. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

114 kDa

### Swiss-Prot:

O75150 Human;Q3U319 Mouse;Q8CJB9 Rat

### Purification&Purity:

Protein A purified.

### Applications:

WB:1:1,000-1:2,000

IP:1:10-1:50

IHC:1:50

### Storage&Stability:

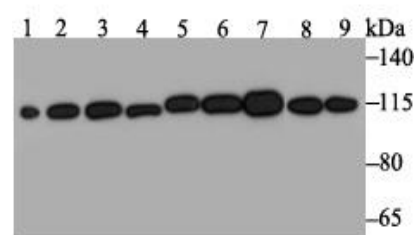
Store at +4 °C after thawing. Aliquot store at -20 °C.

Avoid repeated freeze / thaw cycles.

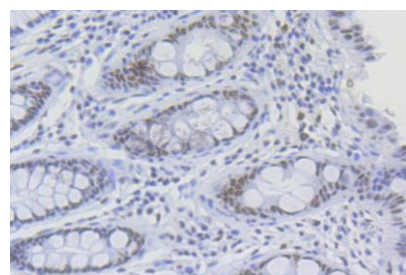
### Specificity:

RNF40 polyclonal antibody detects endogenous levels of RNF40 protein.

### DATA:



Western blot analysis of RNF40 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse testis tissue lysate Lane 2: Rat brain tissue lysate Lane 3: A431 cell lysate Lane 4: SH-SY-5Y cell lysate Lane 5: SiHa cell lysate Lane 6: 293 cell lysate Lane 7: Hela cell lysate Lane 8: HepG2 cell lysate Lane 9: A549 cell lysate



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-RNF40 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 mins. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with ET7109-46 at 1/50 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

used as the chromogen. Counter stained with hematoxylin and mounted with DPX.

**Note:**

For research use only, not for use in diagnostic procedure.

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