

PACO20644

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## Product Information

**Size:**

50ul

**Reactivity:**

Human, Mouse, Rat

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, IHC

**Recommended dilutions:**

ELISA:1:2000-1:5000, IHC:1:25-1:100

**Protein Background:**

E3 ubiquitin-protein ligase required for accumulation of repair proteins to sites of DNA damage. Acts with UBE2N/UBC13 to amplify the RNF8-dependent histone ubiquitination. Recruited to sites of DNA damage at double-strand breaks (DSBs) by binding to ubiquitinated histone H2A and H2AX and amplifies the RNF8-dependent H2A ubiquitination, promoting the formation of 'Lys-63'-linked ubiquitin conjugates. This leads to concentrate ubiquitinated histones H2A and H2AX at DNA lesions to the threshold required for recruitment of TP53BP1 and BRCA1. Also recruited at DNA interstrand cross-links (ICLs) sites and promotes accumulation of 'Lys-63'-linked ubiquitination of histones H2A and H2AX, leading to recruitment of FAAP20/C1orf86 and Fanconi anemia (FA) complex, followed by interstrand cross-link repair. H2A ubiquitination also mediates the ATM-dependent transcriptional silencing at regions flanking DSBs in cis, a mechanism to avoid collision between transcription and repair intermediates.

**Gene ID:**

TMSB4X

**Uniprot**

P62328

**Synonyms:**

thymosin beta 4, X-linked

**Immunogen:**

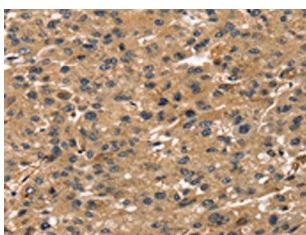
Synthetic peptide of human TMSB4X.

**Storage:**

-20&deg; C, pH7.4 PBS, 0.05% NaN<sub>3</sub>, 40% Glycerol

## Product Images

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The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using PACO20644(TMSB4X Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: x—200).