

**TTLL12 (5S1) Mouse Monoclonal antibody**  
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**Catalog # AP93879****Specification**

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**TTLL12 (5S1) Mouse Monoclonal antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q14166</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	74404

**TTLL12 (5S1) Mouse Monoclonal antibody - Additional Information****Gene ID** 23170**Other Names**

Tubulin--tyrosine ligase-like protein 12, Inactive tubulin--tyrosine ligase-like protein 12, TTLL12, KIAA0153

**Storage Conditions**

-20°C

**TTLL12 (5S1) Mouse Monoclonal antibody - Protein Information****Name** TTLL12**Synonyms** KIAA0153**Function**

Negatively regulates post-translational modifications of tubulin, including detyrosination of the C-terminus and polyglutamylation of glutamate residues (PubMed:<a href="http://www.uniprot.org/citations/20162578" target="\_blank">20162578</a>, PubMed:<a href="http://www.uniprot.org/citations/23251473" target="\_blank">23251473</a>). Also, indirectly promotes histone H4 trimethylation at 'Lys-20' (H4K20me3) (PubMed:<a href="http://www.uniprot.org/citations/23251473" target="\_blank">23251473</a>). Probably by controlling tubulin and/or histone H4 post-translational modifications, plays a role in mitosis and in maintaining chromosome number stability (PubMed:<a href="http://www.uniprot.org/citations/20162578" target="\_blank">20162578</a>, PubMed:<a href="http://www.uniprot.org/citations/23251473" target="\_blank">23251473</a>). During RNA virus-mediated infection, acts as a negative regulator of the RIG-I pathway by preventing MAVS binding to TBK1 and IKKε (PubMed:<a href="http://www.uniprot.org/citations/28011935" target="\_blank">28011935</a>).

**Cellular Location**

Cytoplasm. Midbody Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Nucleus Note=Predominantly localizes in the cytoplasm (PubMed:28011935) Partially colocalizes with vimentin in prostate cancer cells

(PubMed:20162578).

#### **Tissue Location**

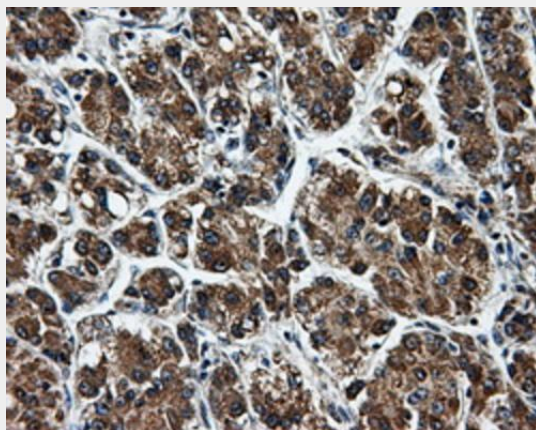
Expressed in the basal layer of prostate and endothelial cells. Increased expression in prostatic intraepithelial neoplasia and metastatic lesions.

#### **TTLL12 (5S1) Mouse Monoclonal antibody - Protocols**

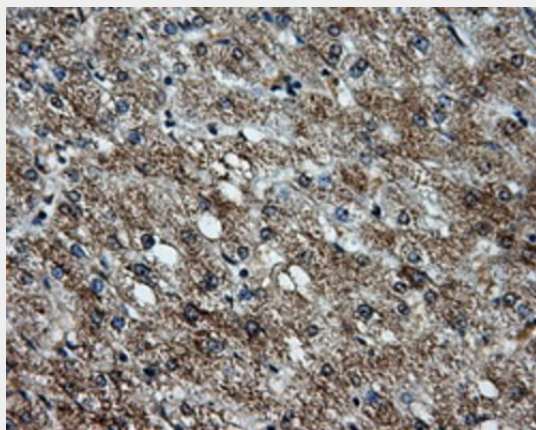
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **TTLL12 (5S1) Mouse Monoclonal antibody - Images**

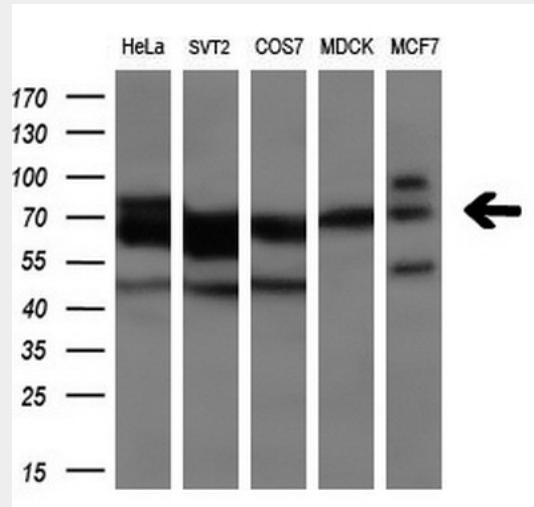


Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93879, Dilution 1:50)

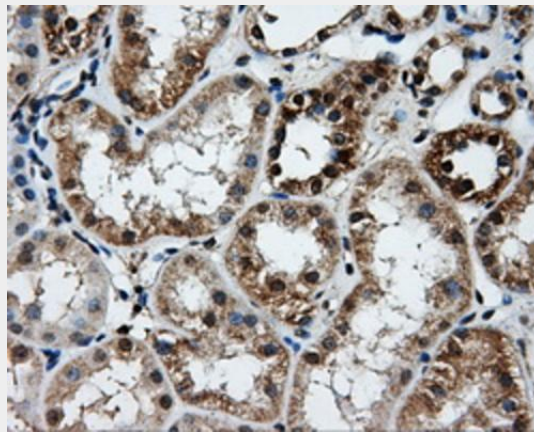


Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using

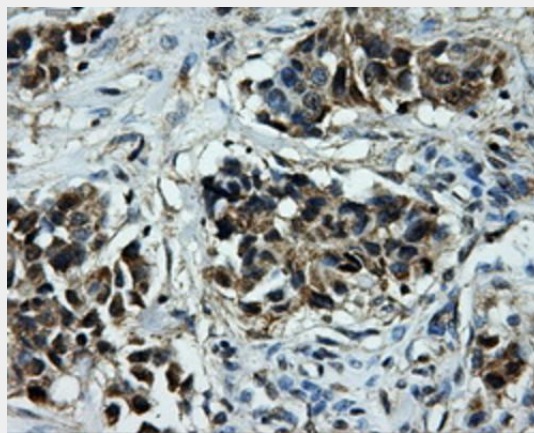
anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93879, Dilution 1:50)



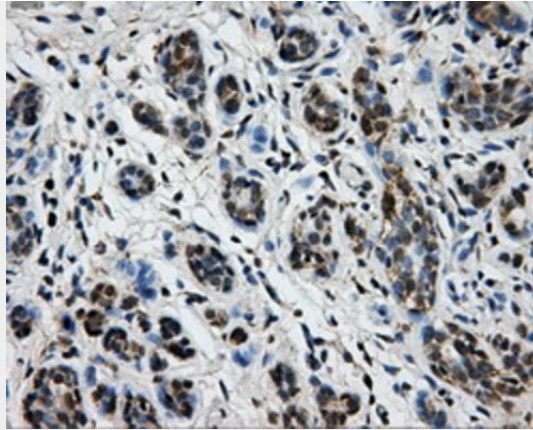
Western blot analysis of extracts (10ug) from 5 different cell lines by using anti-TTLL12 monoclonal antibody (1:200).



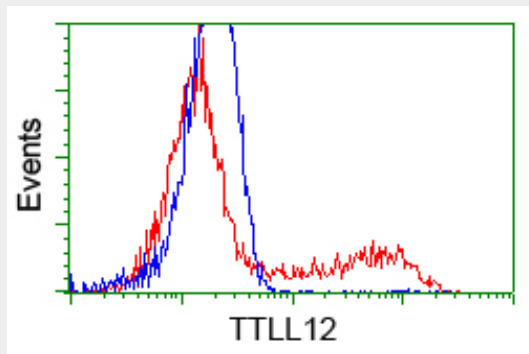
Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93879, Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of breast tissue using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93879, Dilution 1:50)



Immunohistochemical staining of paraffin-embedded breast tissue within the normal limits using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93879, Dilution 1:50)



HEK293T cells transfected with either pCMV6-ENTRY TTLL12 (Red) or empty vector control plasmid (Blue) were immunostained with anti-TTLL12 mouse monoclonal (AP93879), and then analyzed by flow cytometry.