10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TTLL12 (11R19) Mouse Monoclonal antibody

TTLL12 (11R19) Mouse Monoclonal antibody

Catalog # AP93878

Specification

TTLL12 (11R19) Mouse Monoclonal antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q14166
Reactivity	Rat, Human, Mouse, Monkey, Dog
Clonality	Monoclonal
Calculated MW	74404

TTLL12 (11R19) 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

Dilution
WB~~1:1000
IHC~~1:100~500
IF~~1:50~200

Storage Conditions
-20℃

TTLL12 (11R19) 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:20162578, PubMed:23251473). Also, indirectly promotes histone H4 trimethylation at 'Lys-20' (H4K20me3) (PubMed:23251473). Probably by controlling tubulin and/or histone H4 post-translational modifications, plays a role in mitosis and in maintaining chromosome number stability (PubMed:20162578, PubMed:23251473). During RNA virus-mediated infection, acts as a negative regulator of the RIG-I pathway by preventing MAVS binding to TBK1 and IKBKE (PubMed:28011935).

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).

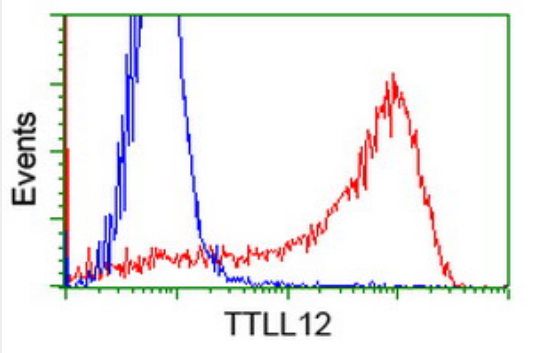
Tissue Location
Expressed in the basal layer of prostate and endothelial cells. Increased expression in prostatic intraepithelial neoplasia and metastatic lesions.

TTLL12 (11R19) Mouse Monoclonal antibody - Protocols

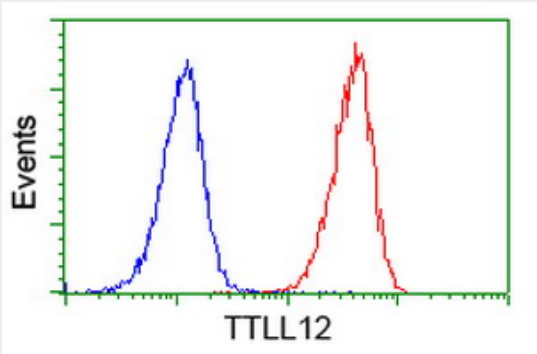
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TTLL12 (11R19) Mouse Monoclonal antibody - Images

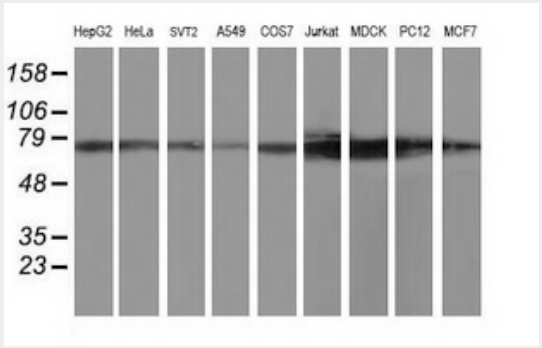


HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-TTLL12 antibody (AP93878), and then analyzed by flow cytometry.



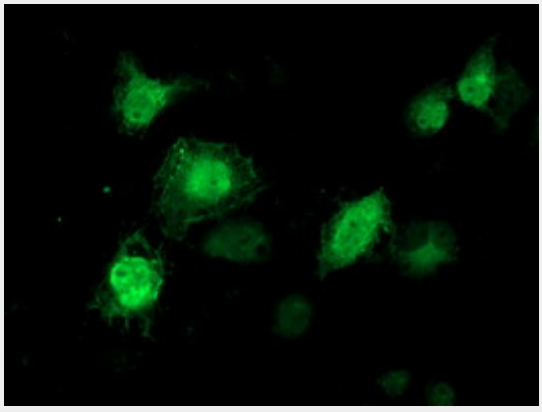
Flow cytometric Analysis of Jurkat cells, using anti-TTLL12 antibody (AP93878), (Red), compared to a nonspecific negative control antibody, (Blue).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



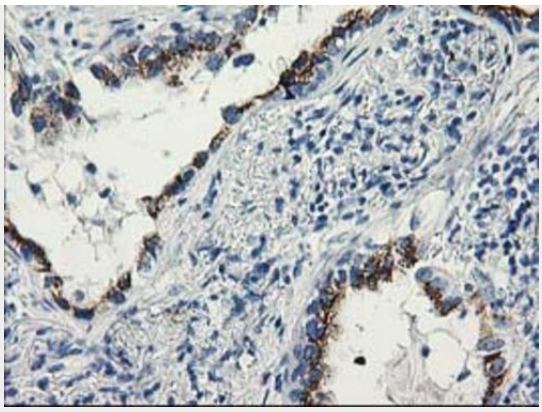
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TTLL12 monoclonal antibody.

Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93878)

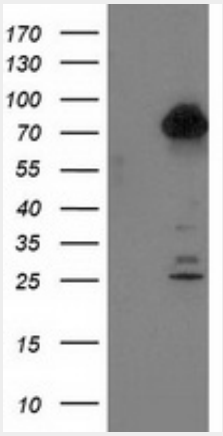


Anti-TTLL12 mouse monoclonal antibody (AP93878) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TTLL12 .

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-TTLL12 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93878)



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TTLL12 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TTLL12. Positive lysates (100ug) and (20ug) can be purchased separately from biodragon.