

Anti-TERT Antibody [G9-H2]

EM1707-13



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, FC
Molecular Wt:	127 kDa
Clone number:	G9-H2

Description: Telomerase is an RNA-dependent DNA polymerase that catalyzes the addition of telomeric repeat sequences to chromosome ends. In most human somatic cells, telomerase activity is undetectable, and telomeres shorten with successive cell divisions. However, telomerase activity is detectable in immortal cells and in many human tumors. Two candidate mammalian telomerase proteins have been cloned. Human TP1 (for telomerase-associated protein 1), also designated TLP1 in rat (for telomerase protein component 1), is homologous to the Tetrahymena p80 telomerase protein and has been shown to interact with mammalian telomerase RNA. Human TERT (for telomerase reverse transcriptase), also designated hEST2 (for ever shorter telomeres), is homologous to the p123 telomerase protein from Euplotes and to the yeast Est2 protein. Expression of TERT mRNA has been shown to correlate with telomerase activity in various cell lines

Immunogen: Recombinant protein

Positive control: Human TERT recombinant protein, TERT-hlgGfc transfected HEK293 cell lysate, human colon cancer tissue, human esophageal cancer tissue, Hela.

Subcellular location: Nucleus

Database links: SwissProt: O14746 Human

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4°C; -20°C for long term storage.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

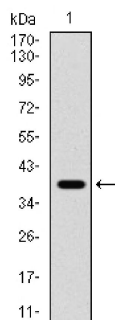


Fig1: Western blot analysis of TERT on human TERT recombinant protein using anti-TERT antibody at 1/1,000 dilution.

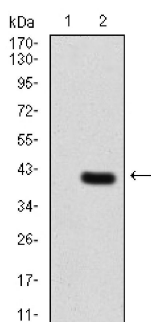


Fig2: Western blot analysis of TERT on HEK293 (1) and TERT-hlgGfc transfected HEK293 (2) cell lysate using anti-TERT antibody at 1/1,000 dilution.

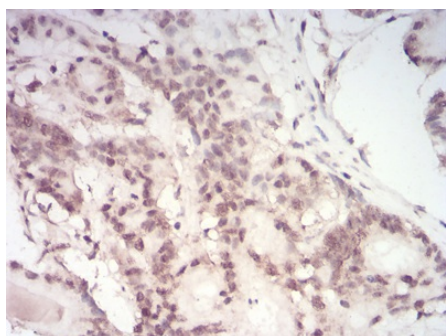


Fig3: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-TERT antibody. Counter stained with hematoxylin.

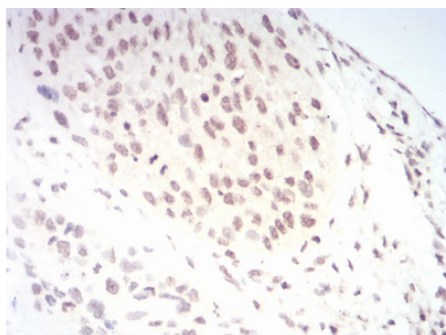


Fig4: Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissue using anti-TERT antibody. Counter stained with hematoxylin.

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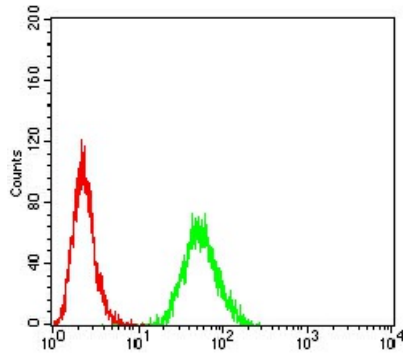


Fig5: Flow cytometric analysis of HeLa cells with TERT antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Im E et al. Human Telomerase Reverse Transcriptase (hTERT) Positively Regulates 26S Proteasome Activity. *J Cell Physiol* N/A:N/A (2016).
2. Yang Y et al. MR molecular imaging of tumours using ferritin heavy chain reporter gene expression mediated by the hTERT promoter. *Eur Radiol* 26:4089-4097 (2016).

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