Data Sheet (Cat.No.TMAC-01614)

Anti-GAPDH Antibody (2N589)

Product Details

Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 36 kDa.
Clone:	2N589
Purification:	ProA affinity purified

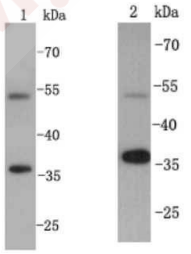
Applications

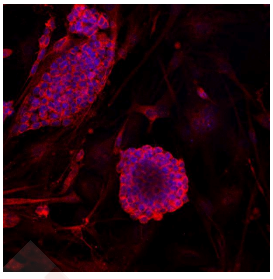
Verified Activity:

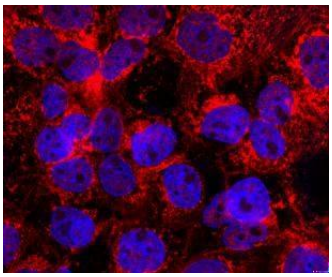
1. Western blot analysis of GAPDH on different cells lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Hela cell lysate, Lane 2: A549 cell lysate, Lane 3: HepG2 cell lysate, Lane 4: PC-12 cell lysate, Lane 5: F9 cell lysate.

2. ICC staining GAPDH in D3 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS and counterstained with DAPI in order to highlight the nucleus (blue).

3. ICC staining of GAPDH in A431 cells (red). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody for 1 hour at room temperature, washed with PBS. Alexa Fluor 555 Goat anti-Mouse IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is DAPI (blue).







Application:	ICC,WB
Recommended	WB: 1:2000-5000; ICC: 1:200

Properties

Stability & Storage:	Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide
Uniprot ID:	P04406
Synonyms:	GAPD;G3PD;HEL-S-162eP;glyceraldehyde-3-phosphate dehydrogenase

Research Background

GAPDH (Glyceraldehyde-3-phosphate dehydrogenase) has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. It participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. GAPDH is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.

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