

Product datasheet for **TA349207**

GAPDH Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 2000-10000 WB positive control: Hela, 293T, Jurkat, A431, A549 cell lysates IHC: 50-200 Positive control: Human esophagus cancer Predicted cell location: Cytoplasm and Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human GAPDH
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	37 kDa
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	NP_002037 Entrez Gene 14433 Mouse Entrez Gene 24383 Rat Entrez Gene 2597 Human P04406



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Background:

The abundance of glyceraldehyde-3-phosphate dehydrogenase in eukaryotic cells is relatively unaffected by external factors. In western blot analysis the level of GAPDH, a 38kDa protein, can be used as a reference value for loading control. Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. By similarity. Glyceraldehyde-3-phosphate dehydrogenase 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.

Synonyms:

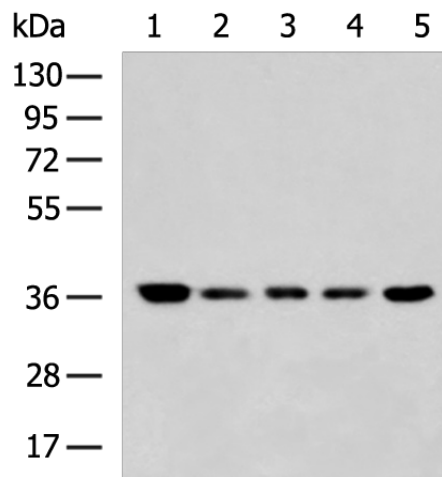
G3PD; GAPD; HEL-S-162eP

Protein Families:

ES Cell Differentiation/IPS

Protein Pathways:

Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:

Gel: 8%SDS-PAGE

Lysate: 40 µg

Lane 1-5: HeLa

293T

Jurkat

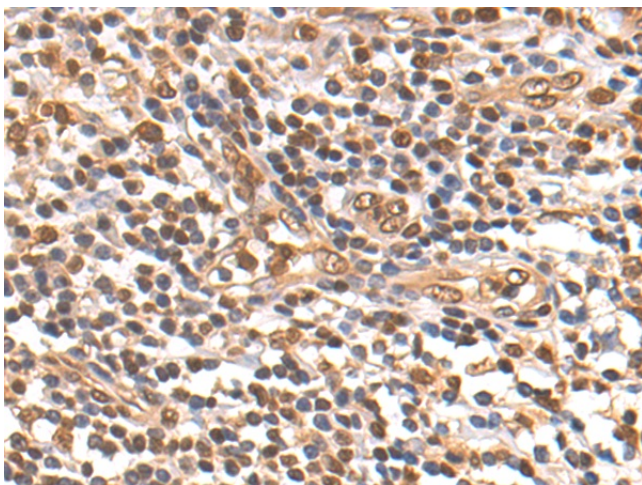
A431

A549 cell lysates

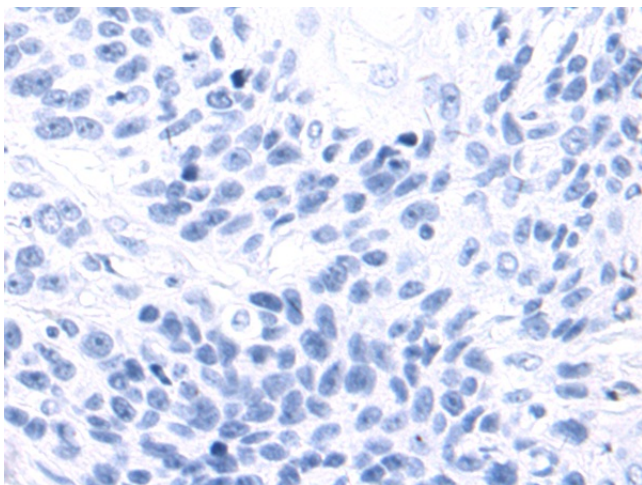
Primary antibody: TA349207 (GAPDH Antibody) at dilution 1/4000

Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution

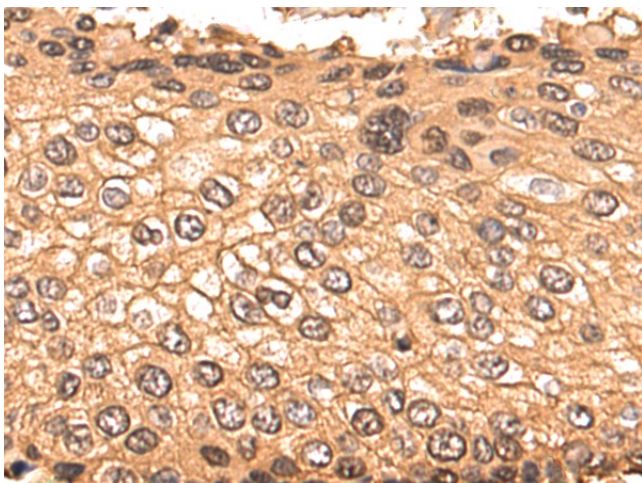
Exposure time: 5 seconds



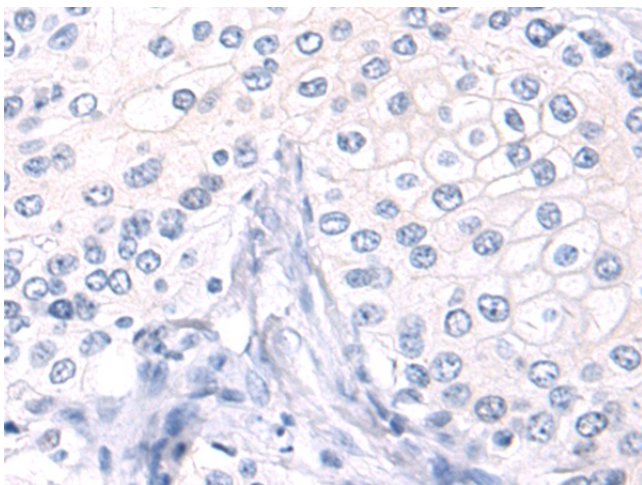
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA349207 (GAPDH Antibody) at dilution 1/70 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA349207 (GAPDH Antibody) at dilution 1/70, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA349207 (GAPDH Antibody) at dilution 1/70 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA349207 (GAPDH Antibody) at dilution 1/70, treated with fusion protein. (Original magnification: ×200)