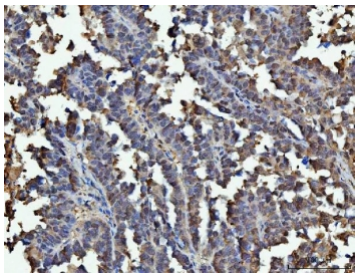
# GAPDH Antibody (R32661)

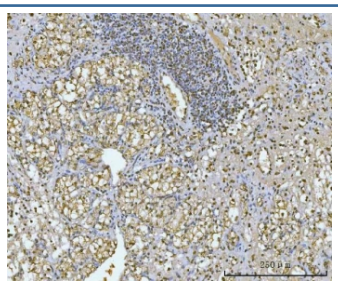
| Catalog No. | Formulation | Size |
|---|---|---|
| R32661 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

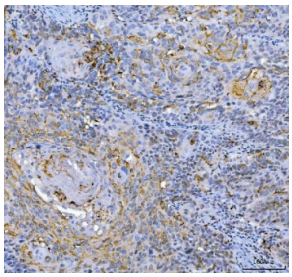
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P04406 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml |
| **Limitations** | This GAPDH antibody is available for research use only. |



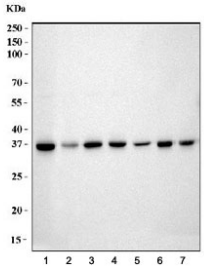
IHC staining of FFPE human ovarian serous cancer tissue with GAPDH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human renal clear cell carcinoma tissue with GAPDH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with GAPDH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human HeLa, 2) human Caco-2, 3) human CCRF-CEM, 4) rat brain, 5) rat liver, 6) mouse brain and 7) mouse liver lysate with GAPDH antibody. Predicted molecular weight ~36 kDa.

## Description

Glyceraldehyde 3-phosphate dehydrogenase (GAPDH or G3PDH) is an enzyme of ~37 kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. GAPDH is mapped to 12p13.31. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus.

## Application Notes

Optimal dilution of the GAPDH antibody should be determined by the researcher.

## Immunogen

Amino acids N136-E335 from the human protein were used as the immunogen for the GAPDH antibody.

## Storage

After reconstitution, the GAPDH antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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