

## Product datasheet for **SP2162P**

### GAPDH Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western blot:</b> 0.5 - 1 µg/ml, detects a band of approximately 37 kDa in HeLa cell lysates. <b>Immunocytochemistry.</b>
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A 16 amino acid peptide located near human GAPDH carboxy-terminus
Specificity:	This antibody recognises an epitope within the C-terminal region (CT) of Glyceraldehyde-3-phosphate dehydrogenase (GAPDH).
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0,02% Sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	<a href="#">Entrez Gene 2597 Human P04406</a>



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**Background:**

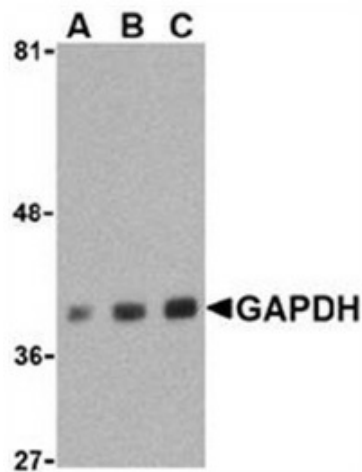
GAPDH is a glycolytic enzyme which plays a key role in energy production, and has also been implicated in numerous cellular processes.

GAPDH is a homotetramer molecule consisting of four 36 kDa subunits, constitutively expressed in most cells and tissues, and is responsible for the generation of energy during carbohydrate metabolism, catalysing the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate.

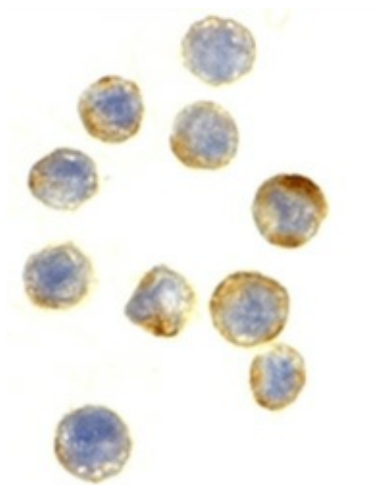
The role of GAPDH as a multifunctional protein has emerged from many studies, confirming its involvement in critical nuclear pathways, apoptosis, membrane transport and fusion, DNA replication and repair and phosphotransferase activity. Furthermore, the ability of GAPDH to bind with high affinity to  $\beta$ -amyloid precursor protein (Alzheimer's disease) and selectively with CAG mutated proteins, including huntingtin (Huntingdon's disease) and the androgen receptor (spinobulbar muscular atrophy), has focused many studies towards the role of GAPDH in the pathogenesis of neurodegenerative diseases (1).

**Synonyms:**

GAPD, CDABP0047

**Product images:**

Western blot analysis of whole cell lysate from HeLa human epithelial adenocarcinoma cells probed with Rabbit anti Human GAPDH at 0.5 (A), 1 (B) and 2 (C) ug/ml



Immunocytochemical staining of HeLa cells with Rabbit anti Human GAPDH