

GAPDH 抗原（重组蛋白）

中文名称： GAPDH 抗原（重组蛋白）

英文名称： GAPDH Antigen (Recombinant Protein)

别名： G3PD; GAPD; HEL-S-162eP

相关类别 抗原

储存： 冷冻（-20℃）

概述

Fusion protein corresponding to a region derived from 1-335 amino acids of human GAPDH

技术规格

Full name:	glyceraldehyde-3-phosphate dehydrogenase
Synonyms:	G3PD; GAPD; HEL-S-162eP
Swissprot:	P04406
Gene Accession:	BC001601
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. 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. Also,

this protein contains a peptide that has antimicrobial activity against *E. coli*, *P. aeruginosa*, and *C. albicans*. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.