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## Datasheet for ABIN7319940 GAPDH Protein (His tag)

### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 100 µg                                       |
| Target:                       | GAPDH  |
| Origin:                       | Human  |
| Source:                       | Escherichia coli (E. coli)                   |
| Protein Type:                 | Recombinant                                  |
| Biological Activity:          | Active                                       |
| Purification tag / Conjugate: | This GAPDH protein is labelled with His tag. |

### Product Details

|                              |  |
|------------------------------|--|
| Purpose:                     | Recombinant Human GAPDH protein (His Tag)  |
| Sequence:                    | 1M-333E  |
| Characteristics:             | A DNA sequence encoding the Human GAPDH (P04406) (1M-333E) was expressed with a polyhistidine tag at the N-terminus. |
| Purity:                      | >90 % as determined by reducing SDS-PAGE.  |
| Biological Activity Comment: | Immunogen(E-AB-40337)  |

### Target Details

|                   |   |
|-------------------|---|
| Target:           | GAPDH   |
| Alternative Name: | GAPDH ( <a href="#">GAPDH Products</a> )  |
| Background:       | Background: Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, |

## Target Details

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. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (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. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.

Synonym: Aging associated gene 9 protein, Epididymis secretory sperm binding protein Li 162eP, G3P, G3PD, G3PDH, GAPD, GAPDH, Glyceraldehyde 3 phosphate dehydrogenase, Glyceraldehyde-3-phosphate dehydrogenase, HEL S 162eP, Peptidyl-cysteine S-nitrosylase GAPDH

|                   |         |
|-------------------|---------|
| Molecular Weight: | 37.1kDa |
|-------------------|---------|

|          |                        |
|----------|------------------------|
| UniProt: | <a href="#">P04406</a> |
|----------|------------------------|

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|         |             |
|---------|-------------|
| Format: | Lyophilized |
|---------|-------------|

|                 |  |
|-----------------|--|
| Reconstitution: | Please refer to the printed manual for detailed information. |
|-----------------|--|

|         |                                      |
|---------|--------------------------------------|
| Buffer: | Lyophilized from sterile PBS, pH 7.4 |
|---------|--------------------------------------|

|          |                      |
|----------|----------------------|
| Storage: | 4 °C, -20 °C, -80 °C |
|----------|----------------------|

|                  |   |
|------------------|---|
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
|------------------|---|