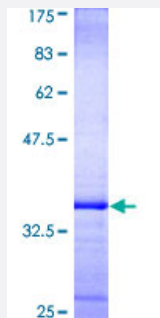


# TEK (Human) Recombinant Protein (Q01)

Catalog # H00007010-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human TEK partial ORF ( AAH35514, 701 a.a. - 800 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Sequence</b>                      | AFSHELVTLPESQAPADLGGGKMLLIAILGSAGMTCLTVLLAFLIILQLKRANVQRRMAQAFQNVRE<br>EPAVQFNSGTLALNRKVKNPDPTIYPVLDWND |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                   |
| <b>Theoretical MW (kDa)</b>          | 36.41                                                                                                   |
| <b>Interspecies Antigen Sequence</b> | Mouse (93); Rat (90)                                                                                    |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                   |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                       |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                             |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                         |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                  |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — TEK

Entrez GeneID [7010](#)

GeneBank Accession# [BC035514](#)

Protein Accession# [AAH35514](#)

Gene Name TEK

Gene Alias CD202B, TIE-2, TIE2, VMCM, VMCM1

Gene Description TEK tyrosine kinase, endothelial

Omim ID [600195](#) [600221](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The TEK receptor tyrosine kinase is expressed almost exclusively in endothelial cells in mice, rats , and humans. This receptor possesses a unique extracellular domain containing 2 immunoglobulin-like loops separated by 3 epidermal growth factor-like repeats that are connected to 3 fibronectin type III-like repeats. The ligand for the receptor is angiopoietin-1. Defects in TEK are associated with inherited venous malformations; the TEK signaling pathway appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to the TIE receptor tyrosine kinase. [provided by RefSeq]

**Other Designations** OTTHUMP00000021167|soluble TIE2 variant 1|soluble TIE2 variant 2

## Disease

- [Drug Toxicity](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)
- [Tobacco Use Disorder](#)
- [Vascular Malformations](#)