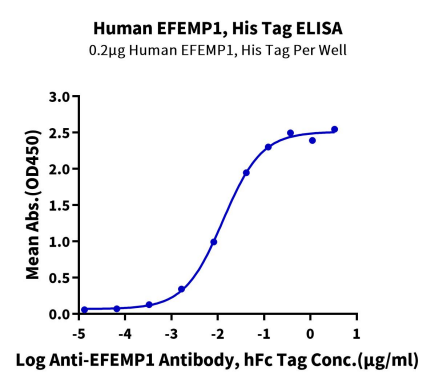
Bioactive HuPro®

EFEMP1 (Human) Recombinant Protein

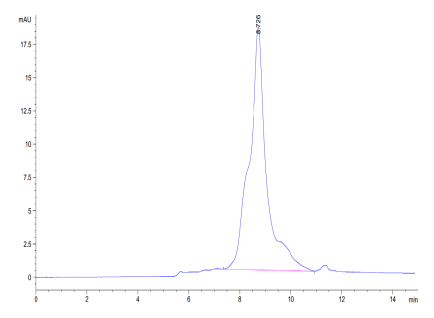
Catalog # P9889 Size 100 ug

Applications



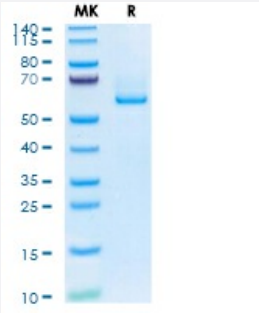
Enzyme-linked Immunoabsorbent Assay

Immobilized Human EFEMP1, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-EFEMP1 Antibody, hFc Tag with the EC50 of 13.0 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human EFEMP1 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human EFEMP1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

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Product Description	Human EFEMP1 (Q12805-1, Gln18-Phe493) partial recombinant protein with His tag at N-Terminus expressed in HEK293 cells.
Sequence	Gln18-Phe493
Host	Human
Theoretical MW (kDa)	53.9
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 13.0 ng/mL, messured by ELISA at 2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human EFEMP1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human EFEMP1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with deionized water, store at -80°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human EFEMP1, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-EFEMP1 Antibody, hFc Tag with the EC50 of 13.0 ng/mL determined by ELISA.
- SDS-PAGE

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Gene Info — EFEMP1

Entrez GeneID	2202
Protein Accession#	Q12805-1
Gene Name	EFEMP1
Gene Alias	DHRD, DRAD, FBLN3, FBNL, FLJ35535, MGC111353, MLVT, MTLV, S1-5
Gene Description	EGF-containing fibulin-like extracellular matrix protein 1
Omim ID	126600 601548
Gene Ontology	Hyperlink
Gene Summary	This gene spans approximately 18 kb of genomic DNA and consists of 12 exons. Alternative splic e patterns in the 5' UTR result in three transcript variants encoding the same extracellular matrix pr otein. Mutations in this gene are associated with Doyne honeycomb retinal dystrophy. [provided b y RefSeq
Other Designations	fibrillin-like|fibulin 3

Publication Reference

- Fibulin-3 is a novel TGF-β pathway inhibitor in the breast cancer microenvironment.

  H Tian, J Liu, J Chen, M L Gatza, G C Blobe

  Oncogene 2015 Nov; 34(45):5635-47.

- EFEMP1 promotes the migration and invasion of osteosarcoma via MMP-2 with induction by AEG-1 via NF-κB signaling pathway.

  Zhuo Wang, Chuang-Jie Cao, Lei-Lei Huang, Zun-Fu Ke, Can-Jiao Luo, Zhong-Wei Lin, Fen Wang, Yuan-Qi Zhang, Lian-Tang Wang

  Oncotarget 2015 Jun; 6(16):14191-208.

Disease

- Atherosclerosis
- Calcinosis
- Coronary Artery Disease

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- Crohn Disease
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Growth Disorders
- Macular Degeneration
- Retinal Degeneration
- Retinal Diseases
- Retinal Drusen
- Tobacco Use Disorder

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