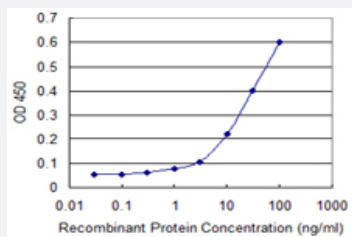


MERTK monoclonal antibody (M01), clone 2D2

Catalog # H00010461-M01

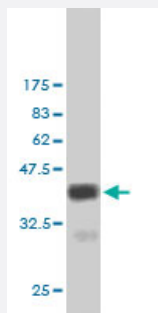
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MERTK is 1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant MERTK.

Immunogen

MERTK (NP_006334, 21 a.a. ~ 120 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

AITEAREEAKPYPLFPGPFGSLQTDHTPLLSLPHASGYQPALMFSPQTQGRPHTGNVAIPQVTSV
ESKPLPPLAFKHTVGHILLSEHKGVKFNCSINV

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (55); Rat (56)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MERTK is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — MERTK

Entrez GeneID	10461
GeneBank Accession#	NM_006343
Protein Accession#	NP_006334
Gene Name	MERTK
Gene Alias	MER, MGC133349, RP38, c-mer
Gene Description	c-mer proto-oncogene tyrosine kinase
Omim ID	268000 604705
Gene Ontology	Hyperlink

Gene Summary

This gene is a member of the MER/AXL/TYRO3 receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). [provided by RefSeq]

Other Designations

MER receptor tyrosine kinase|STK kinase

Publication Reference

- [Crosstalk of protein clearance, inflammasome, and Ca²⁺ channels in retinal pigment epithelium derived from age-related macular degeneration patients.](#)

Viivi Karema-Jokinen, Ali Koskela, Maria Hytti, Heidi Hongisto, Taina Viheriälä, Mikko Liukkonen, Tommi Torsti, Heli Skottman, Anu Kauppinen, Soile Nymark, Kai Kaarniranta.

The Journal of Biological Chemistry 2023 Jun; 299(6):104770.

Application: IF, Human, iPSC-derived retinal pigment epithelium cells

- [Poly\(trimethylene carbonate\) as an elastic biodegradable film for human embryonic stem cell-derived retinal pigment epithelial cells.](#)

Sorkio A, Haimi S, Verdoold V, Juuti-Uusitalo K, Grijpma D, Skottman H.

Journal of Tissue Engineering and Regenerative Medicine 2017 Jan; [Epub].

Application: IF, Human, Human embryonic stem cell-derived retinal pigment epithelial cells

- [Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells.](#)

Sorkio AE, Vuorimaa-Laukkanen EP, Hakola HM, Liang H, Ujula TA, Valle-Delgado JJ, Osterberg M, Yliperttula ML, Skottman H.

Biomaterials 2015 May; 51:257.

Application: IF, Human, hESC-RPE cells

- [Generation of hESC-derived retinal pigment epithelium on biopolymer coated polyimide membranes.](#)

Subrizi A, Hiidenmaa H, Ilmarinen T, Nymark S, Dubrue P, Uusitalo H, Yliperttula M, Urtti A, Skottman H.

Biomaterials 2012 Nov; 33(32):8047.

Application: ICC, IF, Human, hESC-RPE

Disease

- [Carotid Artery Diseases](#)
- [Genetic Predisposition to Disease](#)

- [Kidney Failure](#)
- [Leukopenia](#)
- [Lupus Erythematosus](#)
- [Lymphopenia](#)
- [Retinal Diseases](#)
- [Retinitis Pigmentosa](#)
- [Stroke](#)
- [Tobacco Use Disorder](#)