

Datasheet for KOA0482**Mouse MER - MERTK ELISA Kit****Overview**

Description:	Mouse MER/MERTK AccuSignal ELISA Kit - KOA0482
Item No.:	KOA0482
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	78 pg/ml - 5000 pg/ml

Product Details

Background:	Proto-oncogene tyrosine-protein kinase MER, also called MERTK is an enzyme that in humans is encoded by the MERTK gene. 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. This gene is mapped to 2q13. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. Functions in the retinal pigment epithelium(RPE) as a regulator of rod outer segments fragments phagocytosis. This gene also plays an important role in inhibition of Toll-like receptors(TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.
Synonyms:	C mer, c mer proto oncogene tyrosine kinase, MER receptor tyrosine kinase, MerTK, MERTK_HUMAN, Proto-oncogene c-Mer, Receptor tyrosine kinase MerTK, RP38, STK kinase, Tyrosine-protein kinase Mer
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	MERTK
Reactivity:	Mouse

Immunogen:	Expression system for standard: sf21; Immunogen sequence: E23-F498
Purity/Specificity:	Natural and recombinant mouse MER. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q60805 • NCBI - NP_032613.1 • GeneID - 17289 • KOA0482 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml mouse MER standard solutions into the pre-coated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, cell lysates, tissue homogenates or serum to each empty well. We recommend that each mouse MER standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

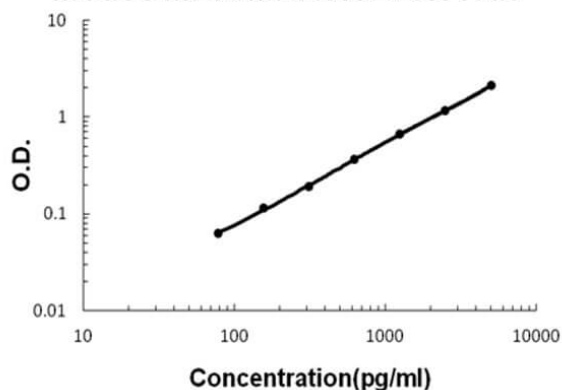
Formulation

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

Mouse MER/MERTK ELISA Kit



ELISA

Mouse MER/MERTK AccuSignal ELISA Kit standard curve.
Assay Range: 78pg/ml-5000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.