

Datasheet for KOA0311**Human TIE2 ELISA Kit****Overview**

Description:	Human TIE2 AccuSignal ELISA Kit - KOA0311
Item No.:	KOA0311
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Tyrosine kinase with Ig and EGF homology domain 2(Tie-2), also called TEK tyrosine kinase, endothelial(TEK). Tie-2 and tie-1 are expressed in early embryonic vascular system and in maternal decidual vascular endothelial cells, where the vasculature undergoes an active angiogenesis. Tie-2, but not tie-1, expression was also detected in extraembryonic mesoderm of the amnion. Angiogenesis is coordinated with follicular cell growth in goitrogenesis. The angiopoietins, Ang-1 and Ang-2, are angiogenic growth factors acting through Tie-2. Tie-2 and Ang-1 are expressed in thyroid epithelial and endothelial cells, and Tie-2 is regulated by TSH and cAMP in follicular cells. And Tie-2 expression is increased in goiter in both humans and rats, consistent with a role in goitrogenesis. Tie2/Ang-1 signaling pathway plays a critical role in the maintenance of HSCs in a quiescent state in the BM niche. And the Tie-2 signaling pathway is also critical for endothelial cell-smooth muscle cell communication in venous morphogenesis.
Synonyms:	Angiopoietin-1 receptor, CD202b, CD202b antigen, EC 2.7.10.1, hTIE2, p140 TEK, soluble TIE2 variant 1, soluble TIE2 variant 2, Tek, TEK tyrosine kinase, endothelial, TIE 2, TIE2_HUMAN, Tunica interna endothelial cell kinase, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE 2, Tyrosine-protein kinase receptor TIE-2, venous malformations, multiple cutaneous and mucosal, VMCM, VMCM1
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<5 pg/ml

Target Details

Gene Name: TEK

Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A23-K745
Purity/Specificity:	Natural and recombinant human TIE2. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q02763 • NCBI - NP_000450.2 • GeneID - 7010 • KOA0311 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human TIE2 standard solutions into the precoated 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 human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human TIE2 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

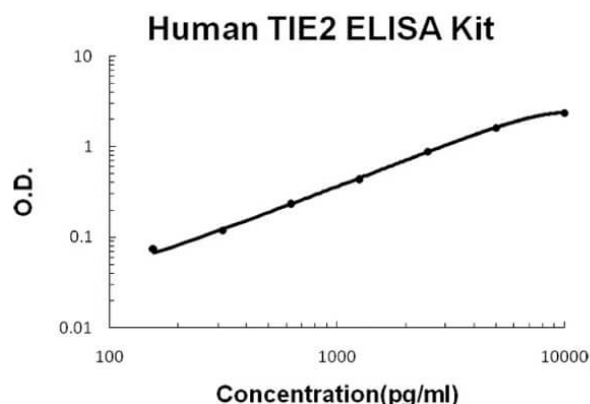
Formulation

Anticoagulant:	Heparin Sodium
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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

**ELISA**

Human TIE2 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/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.