

Datasheet for KOA0831

Human ADAMTS4 ELISA Kit**Overview**

Description:	Human ADAMTS4 AccuSignal ELISA Kit - KOA0831
Item No.:	KOA0831
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	625 pg/ml - 40,000 pg/ml

Product Details

Background:	ADAMTS4, A disintegrin and metalloproteinase with thrombospondin motifs 4 is an enzyme that in humans is encoded by the ADAMTS4 gene. ADAMTS4 is a member of the large ADAMTS family of zinc-dependent proteases. The human ADAMTS4 gene is mapped to chromosome 1 by somatic cell hybrid analysis. The enzyme encoded by this gene lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma.
Synonyms:	A disintegrin and metalloproteinase with thrombospondin motifs 4, A disintegrin like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif 4, A disintegrin like and metalloproteinase with thrombospondin type 1 motif 4, ADAM metalloproteinase with thrombospondin type 1 motif 4, ADAM TS 4, ADAM TS4, ADAM-TS 4, ADAM-TS4, ADAMTS2, ADAMTS4, ADAMTS4 protein, ADMP 1, ADMP-1, ADMP1, Aggrecanase1, ATS4_HUMAN, KIAA0688
Detection Kit Type:	ELISA Kit
Detection Range:	625 pg/ml - 40,000 pg/ml
Sensitivity:	<20 pg/ml

Target Details

Gene Name:	ADAMTS4
Reactivity:	Human

Immunogen:	Expression system for standard: CHO; Immunogen sequence: F213-C685
Purity/Specificity:	Natural and recombinant human ADAMTS4. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - O75173 • NCBI - NP_001307265.1 • GenelD - 9507 • KOA0831 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 40,000pg/ml, 20,000pg/ml, 10,000pg/ml, 5,000pg/ml, 2,500pg/ml, 1,250pg/ml, 625pg/ml human ADAMTS4 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 ADAMTS4 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.
ELISA:	625pg/ml-40,000pg/ml
Other:	DOE: 2-8° C - 09/16/18 -20° C - 03/19/19

Formulation

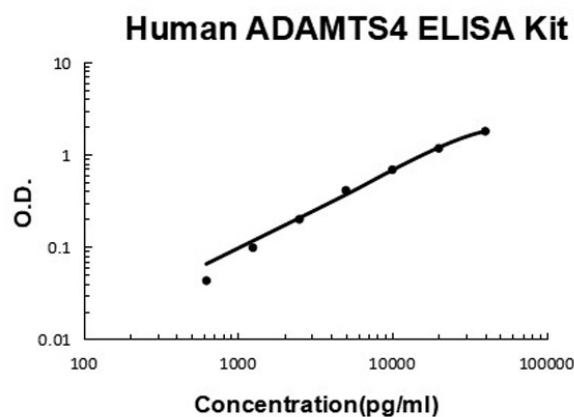
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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 ADAMTS4 ELISA Kit standard curve.

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.