

Datasheet for KOA0375**Human APP ELISA Kit****Overview**

Description:	Human APP AccuSignal ELISA Kit - KOA0375
Item No.:	KOA0375
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	312 pg/ml - 20000 pg/ml

Product Details

Background:	Amyloid precursor protein(APP) is an integral membrane protein expressed in many tissues and concentrated in the synapses of neurons. Its primary function is not known, though it has been implicated as a regulator of synapse formation, neural plasticity and iron export. APP is best known and most commonly studied as the precursor molecule whose proteolysis generates beta amyloid(Abeta), a 39- to 42-amino acid peptide whose amyloid fibrillar form is the primary component of amyloid plaques found in the brains of Alzheimer's disease patients. APP undergoes posttranslational proteolytic processing by alpha-, beta-, and gamma-secretases. Alpha-secretase generates soluble amyloid protein, while beta- and gamma-secretases generate APP components with amyloidogenic features. These 2 processing pathways are mutually exclusive.
Synonyms:	A4 amyloid protein, A4 A4_HUMAN, AAA, ABETA, ABPP, AD 1, Alzheimer disease 1, Alzheimer disease amyloid protein, Amyloid beta A4 protein, Amyloid beta A4 protein precursor isoform b, Amyloid beta A4 protein precursor isoform c, Amyloid beta A4 protein precursor isoform a, Amyloid of aging and alzheimer disease, APP I, Beta amyloid peptide, Cerebral vascular amyloid peptide, CTFgamma, CVAP, Human mRNA for amyloid A4 precursor of Alzheimer's disease, PreA4, Protease nexin II
Detection Kit Type:	ELISA Kit
Detection Range:	312 pg/ml - 20000 pg/ml
Sensitivity:	<10 pg/ml

Target Details**Gene Name:** APP

Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: L18-L688
Purity/Specificity:	Natural and recombinant human APP. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P05067 • NCBI - NP_000475.1 • GeneID - 351 • KOA0375 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 20000pg/ml, 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml human APP 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 APP 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.

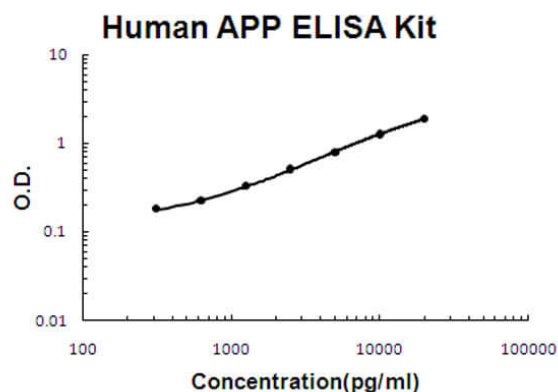
Formulation

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 APP AccuSignal ELISA Kit standard curve. Assay
Range: 312pg/ml-20000pg/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.