

Datasheet for ABIN3044701  
**AGRP ELISA Kit**



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**1** Image

Overview

Quantity:	96 tests
Target:	AGRP
Binding Specificity:	AA 21-132
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7.8-500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human AGRP/agouti-related
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Urine, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: A21-T132
Specificity:	Expression system for standard: sf21 Immunogen sequence: A21-T132
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<4pg/mL

## Product Details

Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl
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## Target Details

Target:	AGRP
Alternative Name:	AGRP ( <a href="#">AGRP Products</a> )
Background:	<p>Protein Function: Plays a role in weight homeostasis. Involved in the control of feeding behavior through the central melanocortin system. Acts as alpha melanocyte-stimulating hormone antagonist by inhibiting cAMP production mediated by stimulation of melanocortin receptors within the hypothalamus and adrenal gland. Has very low activity with MC5R (By similarity). Is an inverse agonist for MC3R and MC4R being able to suppress their constitutive activity. It promotes MC3R and MC4R endocytosis in an arrestin-dependent manner. .</p> <p>Background: Agouti-related protein, also called Agouti-related peptide (AgRP), is a neuropeptide produced in the brain by the AgRP/NPY neuron. It is only synthesised in NPY-containing cell bodies located in the ventromedial part of the arcuate nucleus in the hypothalamus. In humans, the agouti-related peptide is encoded by the AGRP gene. AgRP is co-expressed with Neuropeptide Y and works by increasing appetite and decreasing metabolism and energy expenditure. It is one of the most potent and long-lasting of appetite stimulators.</p> <p>Synonyms: Agouti-related protein,AGRP,AGRT, ART,</p> <p>Full Gene Name: Agouti-related protein</p> <p>Cellular Localisation: Secreted . Golgi apparatus lumen.</p>
Gene ID:	181
UniProt:	<a href="#">O00253</a>
Pathways:	<a href="#">Feeding Behaviour</a> , <a href="#">Photoperiodism</a>

## Application Details

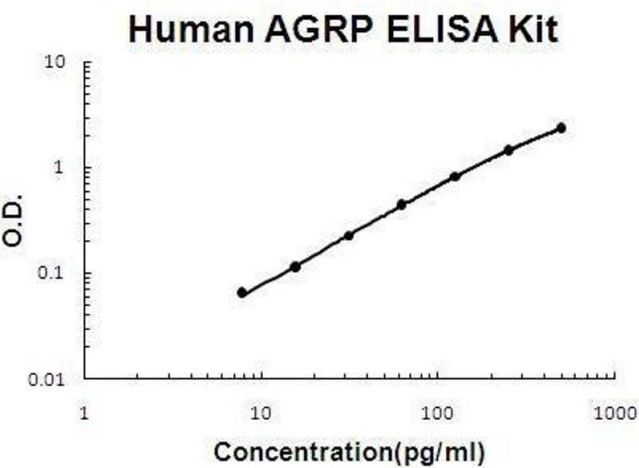
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Expressed primarily in the adrenal gland, subthalamic nucleus, and hypothalamus, with a lower level of expression occurring in testis, lung, and kidney.

## Application Details

Plate:	Pre-coated
Protocol:	human AGRP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for AGRP has been precoated onto 96-well plates. Standards(Expression system for standard: sf21, Immunogen sequence: A21-T132) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for AGRP is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human AGRP amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL human AGRP standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA, citrate) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human AGRP standard solution and each sample be measured in duplicate.
Restrictions:	For Research Use only

## Handling

Buffer:	heparin, EDTA or citrate
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

**Image 1.** Human AGRP PicoKine ELISA Kit standard curve