Alpha 1-Anti-Chymotrypsin (Human) ELISA Kit

Catalog # KA2128 Size 1 Kit

Specification

Product Description	Alpha 1-Anti-Chymotrypsin (Human) ELISA Kit is a two-site enzyme linked immunoassay for the measurement of human Alpha 1-Anti-Chymotrypsin.
Suitable Sample	Plasma, Serum.
Sample Volume	100 uL
Label	HRP-conjugate
Detection Method	Colorimetric
Calibration Range	6.25 to 400 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Gene Info — SERPINA3

Entrez GeneID	12
Gene Name	SERPINA3
Gene Alias	AACT, ACT, GIG24, GIG25, MGC88254
Gene Description	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3

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Omim ID	107280
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease. [provided by Ref Seq
Other Designations	alpha-1-antichymotrypsin|antichymotrypsin|growth-inhibiting protein 24|growth-inhibiting protein 25|serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3|serine (or cysteine) proteinase inhibitor, clade A, memb

Publication Reference

- Serum Glial-Related Biomarkers Show Distinct Contributions to Radiologic and Clinical Outcomes in Early Multiple Sclerosis.

  Manuel Comabella 1 2, Luca Bollo 1, Nicolas Fissolo 1 2, Pascal Benkert 3 4, Ingrid Klass 5, Carmen Tur 1 2, Estibaliz Saez de Gordoa, Lucia Gutierrez, Cristina Auger, Jordi Rio, Jaume Sastre-Garriga, Mar Tintore, Jens Kuhle, Àlex Rovira, Xavier Montalban

  Neurol Neuroimmunol Neuroinflamm 2026 Oct; 13(6):e200663.

- Prediction Value of Initial Serum Levels of SERPINA3 in Intracranial Pressure and Long-Term Neurological Outcomes in Traumatic Brain Injury.

  Haoyuan Tan, Jiamian Wang, Fengshi Li, Yidong Peng, Jin Lan, Yuanda Zhang, Dongxu Zhao, Yinghui Bao

  Diagnostics (Basel) 2024 Jun; 14(12).

- CSF SERPINA3 Levels Are Elevated in Patients With Progressive MS.

  Nicolás Fissolo, Clara Matute-Blanch, Mohamoud Osman, Carme Costa, Rucsanda Pinteac, Berta Miró, Alex Sanchez, Verónica Brito, Irena Dujmovic, Margarete Voortman, Michael Khalil, Eva Borràs, Eduard Sabidó, Shohreh Issazadeh-Navikas, Xavier Montalban, Manuel Comabella Lopez.

  Neurology® Neuroimmunology & Neuroinflammation 2021 Jan; 8(2):e941.

  Application: Quant, Human, Human cerebrospinal fluid

- Rare Loss-of-Function Mutation in SERPINA3 in Generalized Pustular Psoriasis.

  Silke Frey, Heinrich Sticht, Dagmar Wilsmann-Theis, Anne Gerschutz, Katharina Wolf, Sabine Lohr, Stefan Haskamp, Benjamin Frey, Madelaine Hahn, Arif B Ekici, Steffen Uebe, Christian Thiel, Andre Reis, Harald Burkhardt, Frank Behrens, Michaela Kohm, Jurgen Rech, Georg Schett, Gunter Assmann, Kulli Kingo, Sulev Koks, Rotraut Mossner, Jorg C Prinz, Vinzenz Oji, Peter Schulz, Luis E Munoz, Andreas E Kremer, Jorg Wenzel, Ulrike Huffmeier

  J Invest Dermatol 2020 Jul; 140(7):1451-1455..

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- Quantitative proteomic analysis exploring progression of colorectal cancer: Modulation of the serpin family.

  Peltier J, Roperch JP, Audebert S, Borg JP, Camoin L.

  Journal of Proteomics 2016 Oct; 148:139.

  Application: ELISA, Human, Serum

Disease

- Acute Disease
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Alzheimer disease
- Aneurysm
- Asthma
- Brain Ischemia
- Bronchial Hyperreactivity
- Cardiovascular Diseases
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebrovascular Accident
- Chronic Disease
- Cognition
- Cognition Disorders
- Cystic fibrosis
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression

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- Edema
- Encephalitis
- Genetic Predisposition to Disease
- Hemorrhage
- Hypercholesterolemia
- Hypersensitivity
- Hypertension
- Inflammation
- Intracranial Aneurysm
- Kidney Failure
- Lung Neoplasms
- Macular Degeneration
- Mental Status Schedule
- Metabolic Syndrome X
- Multiple System Atrophy
- Myocardial Infarction
- Myocardial Ischemia
- Myositis
- Neoplasms
- Neuropsychological Tests
- Osteoarthritis
- Osteoporosis
- Pancreatitis
- Parkinson disease
- Prostate cancer
- Prostatic Hyperplasia

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- Prostatic Neoplasms
- Pulmonary Disease
- Pulmonary Emphysema
- Stroke
- Subarachnoid Hemorrhage
- Vasculitis
- Wegener Granulomatosis

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