

Product datasheet

Anti-Angiotensin Converting Enzyme 1 antibody [i2H5] (Phycoerythrin) ab33305

Overview

Product name	Anti-Angiotensin Converting Enzyme 1 antibody [i2H5] (Phycoerythrin)
Description	Mouse monoclonal [i2H5] to Angiotensin Converting Enzyme 1 (Phycoerythrin)
Host species	Mouse
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Specificity	ab33305 recognises human CD143, also known as angiotensin - converting enzyme (ACE).
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human, Monkey
Immunogen	Human lung CD143 (Angiotensin converting enzyme)
General notes	Purified IgG conjugated to R. Phycoerythrin (RPE).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	i2H5
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab33305** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		

Application notes

Flow Cyt: 1/Neat.

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Converts angiotensin I to angiotensin II by release of the terminal His-Leu, this results in an increase of the vasoconstrictor activity of angiotensin. Also able to inactivate bradykinin, a potent vasodilator. Has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the mannose linkage in the GPI moiety.

Tissue specificity

Ubiquitously expressed, with highest levels in lung, kidney, heart, gastrointestinal system and prostate. Isoform Testis-specific is expressed in spermatocytes and adult testis.

Involvement in disease

Ischemic stroke (ISCHSTR) [MIM:601367]: A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Renal tubular dysgenesis (RTD) [MIM:267430]: Autosomal recessive severe disorder of renal tubular development characterized by persistent fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype). Note=The disease is caused by mutations affecting the gene represented in this entry.

Microvascular complications of diabetes 3 (MVCD3) [MIM:612624]: Pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Intracerebral hemorrhage (ICH) [MIM:614519]: A pathological condition characterized by bleeding into one or both cerebral hemispheres including the basal ganglia and the cerebral cortex. It is often associated with hypertension and craniocerebral trauma. Intracerebral bleeding is a common cause of stroke. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry.

Sequence similarities

Belongs to the peptidase M2 family.

Post-translational modifications

Phosphorylated by CK2 on Ser-1299; which allows membrane retention.

Cellular localization

Secreted and Cell membrane.

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