



Rabbit Anti-Human AGT monoclonal antibody, clone TE312-13 (DCABH-132)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Angiotensinogen
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	TE312-13
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IP
Molecular Weight	53 kDa
Cellular Localization	Secreted.
Positive Control	LO2, 293, Hela, HepG2.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

Angiotensin is formed from a precursor, angiotensinogen, which is produced by the liver and found in the α -globulin fraction of plasma. The lowering of blood pressure is a stimulus to secretion of Renin by the kidney into the blood. Renin cleaves from angiotensinogen a terminal decapeptide, Angiotensin I (Ang I). This is further altered by the enzymatic removal of a dipeptide to form Angiotensin II (Ang II). Screening a panel of human-mouse somatic cell hybrids confirmed the assignment of the AGT locus to human chromosome 1. Angiotensin, an octapeptide hormone, is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. It has been shown that mechanical stress causes release of Angiotensin from cardiac myocytes and that Angiotensin acts as an initial mediator of the hypertrophic response. Angiotensin treatment also stimulates phosphorylation of Shc, FAK and MAP kinases and induces MKP-1, indicating stimulation of growth factor pathways. Angiotensin stimulation through AT1 has been shown to activate the JAK/Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by co-immunoprecipitation.

Keywords

Aangiotensinogen (serpin peptidase inhibitor clade A member 8);AGT;AI265500;Alpha 1 antiproteinase antitrypsin;Ang;Ang I;Ang II;Ang III;AngII;Angiotensin I;Angiotensin II;Angiotensin III;Angiotensin-3;Angiotensinogen (PAT);Angiotensinogen;ANGT_HUMAN;ANHU;ANRT;AT-2;AT-II;Des-Asp[1]-angiotensin II;FLJ92595;FLJ97926;MGC105326;PAT;Pre angiotensinogen;Serine (or cysteine) proteinase inhibitor;Serpina8;Serpina8;Serpina8 member 8;SERPINA8 antibody

GENE INFORMATION

Entrez Gene ID[183](#)**UniProt ID**[B0ZBE2](#)