Datasheet for ABIN2854896

anti-Angiopoietin 2 antibody

3 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	Angiopoietin 2 (ANGPT2)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiopoietin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Angiopoietin 2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to Angiopoietin 2 (angiopoietin-2) Angiopoietin 2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Angiopoietin 2 (ANGPT2)
Alternative Name:	angiopoietin 2 (ANGPT2 Products)

Target Details

Background:	The protein encoded by this gene is an antagonist of angiopoietin 1 (ANGPT1) and endothelial TEK tyrosine kinase (TIE-2, TEK). The encoded protein disrupts the vascular remodeling ability of ANGPT1 and may induce endothelial cell apoptosis. Three transcript variants encoding three different isoforms have been found for this gene. Cellular Localization: Secreted
Molecular Weight:	57 kDa
Gene ID:	285
UniProt:	O15123
Pathways:	RTK Signaling

Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.04 mg/mL
Buffer:	1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

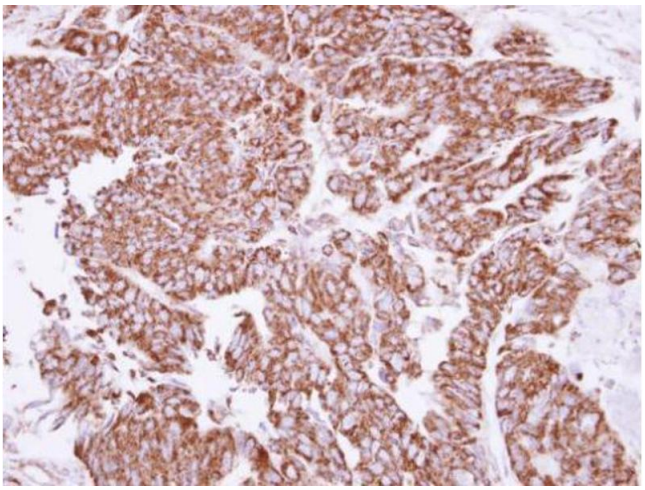
Publications

Product cited in:

Gu, Zhang, Han, Gao, Cui, Sun, Niu, You, Huang, Chang, Wang, Yeh: "Targeting the ERβ/Angiopoietin-2/Tie-2 signaling-mediated angiogenesis with the FDA-approved anti-estrogen Faslodex to increase the Sunitinib sensitivity in RCC." in: **Cell death & disease**, Vol. 11, Issue 5, pp. 367, (2020) (PubMed).

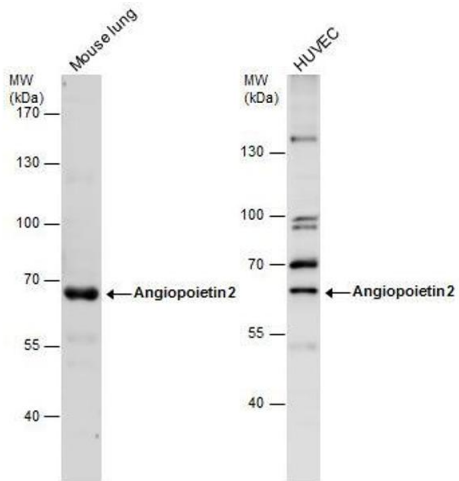
Fischer, Seifen, Baer, Jung, Mertens, Scheller, Zacharowski, Hofmann, Maier, Urbschat: "The Fibrin Cleavage Product Bβ15-42 Channels Endothelial and Tubular Regeneration in the Post-acute Course During Murine Renal Ischemia Reperfusion Injury." in: **Frontiers in pharmacology**, Vol. 9, pp. 369, (2018) (PubMed).

Images



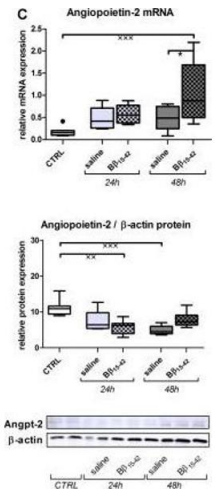
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using Angiopoietin 2, antibody at 1:250 dilution.



Western Blotting

Image 2. WB Image Angiopoietin 2 antibody detects Angiopoietin 2 protein by western blot analysis. Mouse lung extracts (50 µg) and HUVEC cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Angiopoietin 2 antibody , diluted at 1:1000.



Western Blotting

Image 3. Bβ15-42 favors angiogenesis. In order to investigate angiogenetic signaling within IR injury, we performed RT-PCR analyses relative to 18S (upper graphs) and western blot analyses relative to β-actin (middle graphs and lower image) of relevant genes and proteins in kidney tissue homogenates (n = 8 per group) (A-D). Significant difference between Bβ15-42 and saline treated mice at one point in time, x significant difference to CTRL, f significant difference in the time course within Bβ15-42 treated or saline treated mice. /x/fp < 0.05, /xxp < 0.01, xxxp < 0.001. - figure provided by CiteAb. Source: PMID29755348