

Datasheet for ABIN5518982
anti-Endoglin antibody (AA 27-226)



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Overview

Quantity:	100 µg
Target:	Endoglin (ENG)
Binding Specificity:	AA 27-226
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Endoglin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for CD105 detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.
Immunogen:	E. coli-derived mouse CD105 recombinant protein (Position: E27-L226).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for CD105 detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.</p> <p>Gene Name: endoglin</p> <p>Protein Name: Endoglin</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	Endoglin (ENG)
Alternative Name:	Eng (ENG Products)
Background:	<p>Endoglin (Osler-Rendu-Weber syndrome 1), CD105, is a type I membrane glycoprotein located on cell surfaces and is a part of the TGF beta receptor complex. Its gene is mapped to human chromosome 8. The protein consists of a homodimer of 180 kDA with disulfide links. It has been found on endothelial cells, activated macrophages, fibroblasts and smooth muscle cells. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling and has been found to be elevated in pregnant women who subsequently develop preeclampsia.</p> <p>Synonyms: Endoglin, Cell surface MJ7/18 antigen, CD105, Eng, Edg</p>
Gene ID:	13805
UniProt:	Q63961

Application Details

Application Notes:	Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C

Handling

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Ding, Chang, Niu, Dai, Geng, Li, Guo, Xu: "Overexpression of transcription factor Foxa2 and Hnf1 α induced rat bone mesenchymal stem cells into hepatocytes." in: **Cytotechnology**, Vol. 68, Issue 5, pp. 2037-47, (2016) ([PubMed](#)).

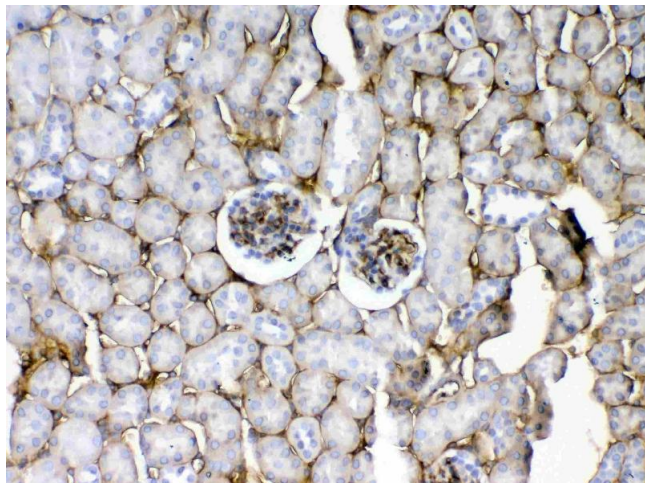
Zhang, Shang, Hao, Zheng, Li, Liang, Cui, Liu: "Effects of human umbilical cord mesenchymal stem cell transplantation combined with minimally invasive hematoma aspiration on intracerebral hemorrhage in rats." in: **American journal of translational research**, Vol. 7, Issue 11, pp. 2176-86, (2016) ([PubMed](#)).

Yuan, Liu, Li, Li, Sun, Xu, Man, Fu: "Effects of BMSCs interactions with adventitial fibroblasts in transdifferentiation and ultrastructure processes." in: **International journal of clinical and experimental pathology**, Vol. 7, Issue 7, pp. 3957-65, (2015) ([PubMed](#)).

Li, Zeng, Qi, Tang, Zhang, Wu, Liang, Shi, Liu, Zhang: "Xenotransplantation of human adipose-derived stem cells in zebrafish embryos." in: **PLoS ONE**, Vol. 10, Issue 4, pp. e0123264, (2015) ([PubMed](#)).

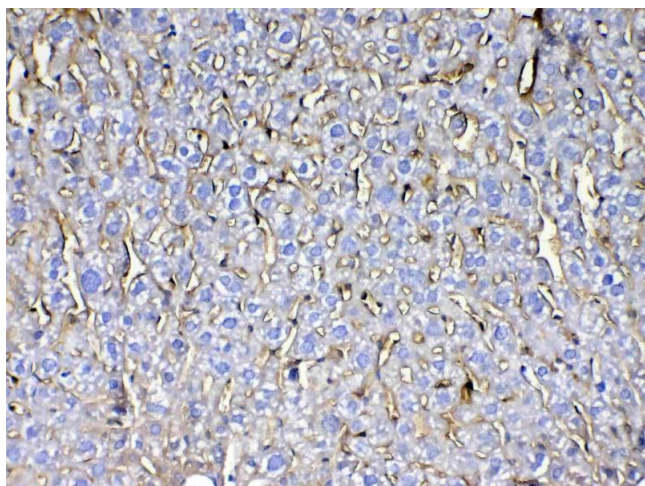
Liu, Feng, Dong, Yang, Li, Chen, Zhang, Wang, Zhou, Zhao: "Administration of BMSCs with muscone in rats with gentamicin-induced AKI improves their therapeutic efficacy." in: **PLoS ONE**, Vol. 9, Issue 5, pp. e97123, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



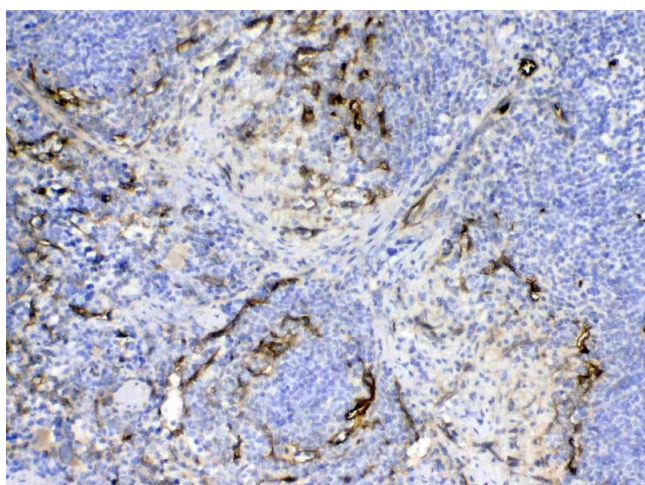
Immunohistochemistry

Image 1. IHC analysis of CD105 using anti-CD105 antibody .CD105 was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD105 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 2. IHC analysis of CD105 using anti-CD105 antibody .CD105 was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD105 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 3. IHC analysis of CD105 using anti-CD105 antibody .CD105 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD105 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and

incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN5518982.