



Datasheet for ABIN687187
anti-CD177 antibody (AA 521-650)



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Overview

Quantity:	100 µL
Target:	CD177
Binding Specificity:	AA 521-650
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD177 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat CD177
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CD177
Alternative Name:	CD177/NB1 (CD177 Products)
Background:	Synonyms: NB1 GP,PRV-1,HNA-2a,NB1 glycoprotein,Neutrophil Glycoprotein NB1, RGD1562941, CD177 antigen, Polycythemia rubra vera protein 1, PRV-1, NB1 glycoprotein, NB1

Target Details

GP, Human neutrophil alloantigen 2a, HNA-2a, CD177, CD177_HUMAN, CD177_MOUSE.

Background: Cd177 (NP1), a glycosyl phosphatidylinositol (GPI) linked N glycosylated cell surface glycoprotein, was first described in a case of neonatal alloimmune neutropenia and analyses showed cell surface expression of a 60 kDa protein, 14 kDa greater than the predicted size, probably due to the presence of 3 potential N glycosylation sites. Immunohistochemistry demonstrated expression in bone marrow early erythroblasts, megakaryocytes, promyelocytes, and myelocytes. The neutrophil NB1 antigen (CD177) is expressed by 97 % of the caucasian population. against NB1 can be involved in neonatal alloimmune neutropenia (NAN).

Gene ID: 499099

UniProt: [D3ZCH9](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

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: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

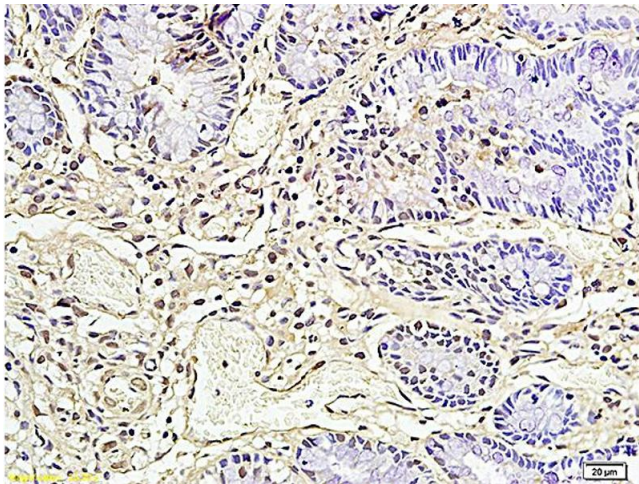
Product cited in: Ning, Yang, Chen, Tian, Zhao, Zhang, Liu, Li, Zhao, Peng, Wang, Chen, Zhou: "Caffeine attenuates brain injury but increases mortality induced by high-intensity blast wave exposure." in: **Toxicology letters**, Vol. 301, pp. 90-97, (2019) ([PubMed](#)).

Yang, Chi, Liu, Yang, Shen, Yang: "Ultrastructure damage of oviduct telocytes in rat model of acute salpingitis." in: **Journal of cellular and molecular medicine**, (2015) ([PubMed](#)).

Scott, Klutho, El Accaoui, Nguyen, Venema, Xie, Jiang, Dibbern, Scroggins, Prasad, Luczak, Davis, Li, Guan, Backs, Schlueter, Weiss, Miller, Anderson, Grumbach: "The multifunctional Ca²⁺/calmodulin-dependent kinase II δ (CaMKII δ) regulates arteriogenesis in a mouse model of flow-mediated remodeling." in: **PLoS ONE**, Vol. 8, Issue 8, pp. e71550, (2013) ([PubMed](#)).

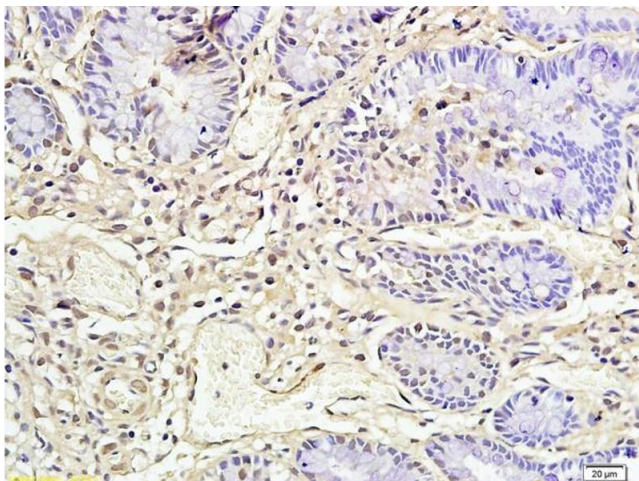
Li, Li, Sanders, Mohler, Backs, Olson, Anderson, Grumbach et al.: "The multifunctional Ca²⁺/calmodulin-dependent kinase II delta (CaMKIIdelta) controls neointima formation after carotid ligation and vascular smooth muscle cell proliferation through cell cycle ..." in: **The Journal of biological chemistry**, Vol. 286, Issue 10, pp. 7990-9, (2011) ([PubMed](#)).

Images



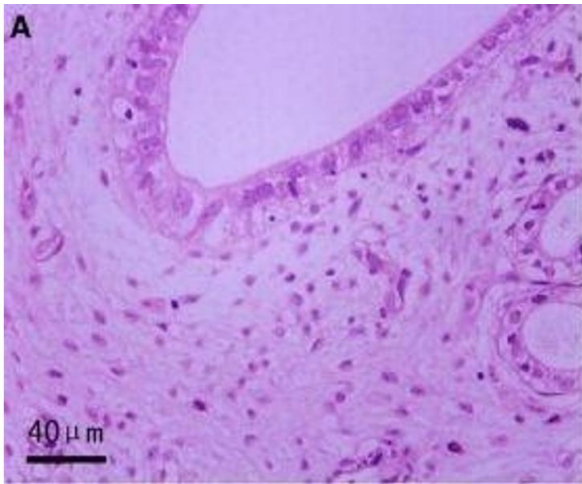
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat colon tissue labeled with Anti CD177/NB1 Polyclonal Antibody, Unconjugated (ABIN687187) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat colon labeled with Anti-CD177/NB1 Polyclonal Antibody, Unconjugated (ABIN687187) followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 3. Haematoxylin and eosin and CD177 IHC staining in AS-affected and -unaffected oviduct tissues. (A) Normal oviduct tissues from the sham group displayed no obvious changes (haematoxylin and eosin staining). (B) Representative microphotographs of acute inflammation in AS-affected oviduct tissues, including SMCs and capillaries swelling, inflammatory congestion and exudation, interstitial oedema and infiltration of neutrophils (black arrows) (haematoxylin and eosin staining). (C) Totally negative CD177 immunostaining indicating no obvious infiltration of inflammatory cells in sham group. (D) Extensive infiltration of neutrophils (black arrows) as indicated by strong positive CD177 immunostaining, together with interstitial fibrosis (white arrows) in AS-affected oviduct tissues. - figure provided by CiteAb. Source: PMID25753567

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN687187.