

Rabbit CD133 Antibody | anti-CD133 antibody

Rabbit anti CD133 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14080	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay, ELISA, Immunoprecipitation

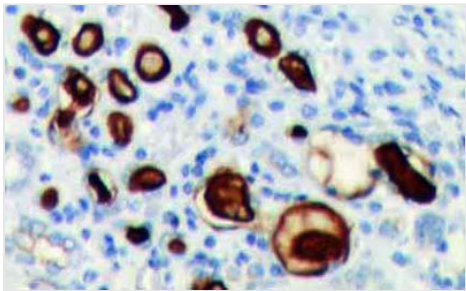
PRODUCT SYNONYMS

CD133; Rabbit anti CD133 antibody; Rabbit anti-CD133; AC133; Prominin 1; anti-CD133 antibody

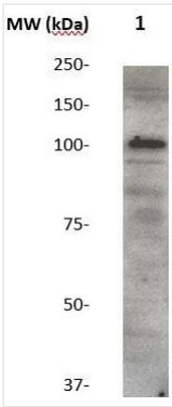
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes ~97 kDa of mouse or rat CD133 protein from mouse embryonic stem cells lyses by Western blot. This antibody reacts with human, rat and mouse. The other species are not tested.
Purity/Purification	The Rabbit IgG is purified by Epitope affinity purification
Form/Format	This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer.
Applicable Applications for anti-CD133 antibody	IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA, IP (Immunoprecipitation)
Application Notes	Western Blot: 0.1-1 ug/ml ELISA: 0.01-0.1 ug/ml Immunoprecipitation: 2-5 ug/ml IHC: 2-10 ug/ml Flow cytometry: 0.5-5 ug/10 ⁶ cells Optimal dilutions should be determined by researchers for the specific applications.
Antigen Preparation	A 18aa synthetic peptide corresponding to C-terminus human CD133.
Positive Control	Kidney tissue
Cellular Location	Cell Membrane
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C to 8°C for 3 months without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry: Human kidney tissue stained with rabbit Anti-CD133 antibody (Cat# AAA14080) at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.



WB (Western Blot)
Western Blot: The tissue lysate derived from mouse kidney was immunoprobed by Rabbit anti-CD133 (Cat# AAA14080) at 1:500. An immunoreactive band is observed around ~117kDa. This band was depleted by pre-incubation with immunizing peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD133 antibody	Background: CD133, originally known as AC133, is a glycoprotein, also known in humans and rodents as Prominin 1 (PROM1). CD133 is a member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM), which specifically localize to cellular protrusions. CD133 is expressed in hemtopoietic stem cells, endothelial progenitor cells, glioblastoma, neuronal and glial stem cells, virous pediatric brain tumors as well as adult kidney, mammary glands, trachea salivary glands, placenta, digestive tract, testes, and some other cell types.
References	Role of Rac1 pathway in epithelial-to-mesenchymal transition and cancer stem-like cell phenotypes in gastric adenocarcinoma . Changhwan Yoon, Soo-Jeong Cho, Kevin K Chang, Do Joong Park, Sandra Ryeom and Sam S. Yoon (2017)

NCBI AND UNIPROT INFORMATION

Molecular Weight	97.0
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-rat-antibody/cd133/14080>