

Rabbit anti-Human RNF40 Polyclonal Antibody | anti-RNF40 antibody

Anti-RNF40 Antibody Picoband

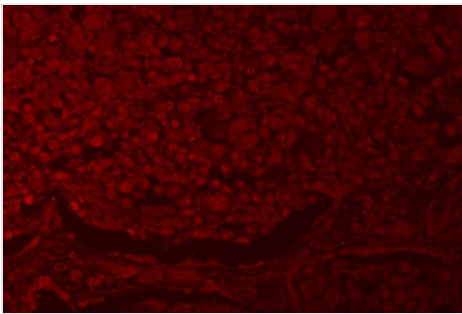
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127414	Rabbit	Human	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RNF40; Polyclonal Antibody; Anti-RNF40 Antibody Picoband; ADAM metallopeptidase domain 28; aldo-keto reductase family 7 member A2; Aflatoxin B1 aldehyde reductase member 2; AFB1 aldehyde reductase 1; AFB1-AR 1; Aldoketoreductase 7; Succinic semialdehyde reductase; SSA reductase; AKR7A2; AFAR; AFAR1; AKR7; anti-RNF40 antibody

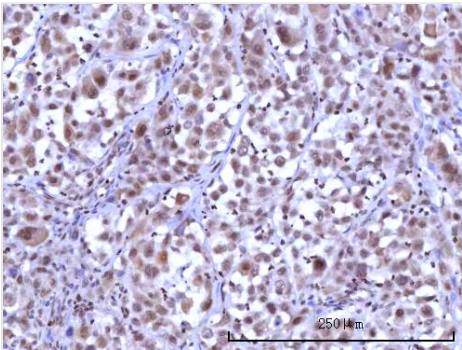
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in basement membranes of lung and kidney. Muscle- and neuron-specific isoforms are found. Isoforms (y+) with the 4 AA insert and (z+8) isoforms with the 8 AA insert are all neuron-specific. Isoforms (z+11) are found in both neuronal and non-neuronal tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RNF40 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human RNF40 recombinant protein (Position: A99-D537).
Subcellular Localization	Golgi apparatus. Cytoplasm.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2-aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10-phenanthrenequinone (in vitro). Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



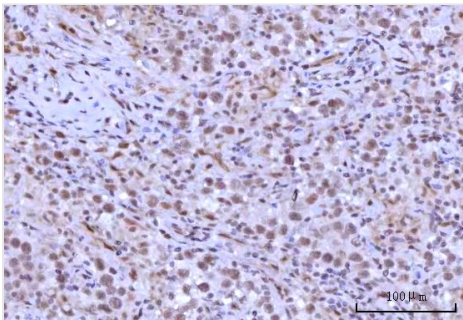
IF (Immunofluorescence)

Figure 5. IF analysis of RNF40 using anti-RNF40 antibody (AAA127414).RNF40 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-RNF40 Antibody (AAA127414) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



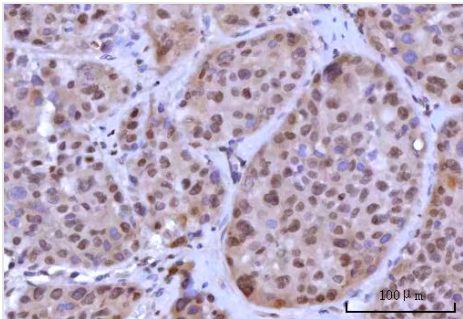
IHC (Immunohistochemistry)

Figure 3. IHC analysis of RNF40 using anti-RNF40 antibody (AAA127414).RNF40 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RNF40 Antibody (AAA127414) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



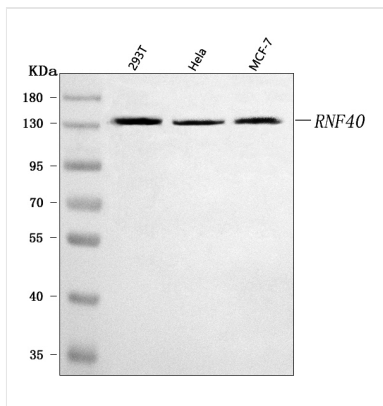
IHC (Immunohistochemistry)

Figure 4. IHC analysis of RNF40 using anti-RNF40 antibody (AAA127414).RNF40 was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RNF40 Antibody (AAA127414) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of RNF40 using anti-RNF40 antibody (AAA127414).RNF40 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RNF40 Antibody (AAA127414) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of RNF40 using anti-RNF40 antibody (AAA127414). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human HeLa whole cell lysates, Lane 3: human MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RNF40 antigen affinity purified polyclonal antibody (#AAA127414) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RNF40 at approximately 130 kDa. The expected band size for RNF40 is at 114 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RNF40 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RNF40 antibody	Primary Antibodies ; Epigenetics and Nuclear Signaling ; Pol II Transcription ; Polymerase Associated Factors ; Transcription
References	1. Chin, L.-S., Vavalle, J. P., Li, L. Staring, a novel E3 ubiquitin-protein ligase that targets syntaxin 1 for degradation. J. Biol. Chem. 277: 35071-35079, 2002.2. Hwang, W. W., Venkatasubrahmanyam, S., Ianculescu, A. G., Tong, A., Boone, C., Madhani, H. D. A conserved RING finger protein required for histone H2B monoubiquitination and cell size control. Molec. Cell 11: 261-266, 2003.3. Wood, A., Krogan, N. J., Dover, J., Schneider, J., Heidt, J., Boateng, M. A., Dean, K., Golshani, A., Zhang, Y., Greenblatt, J. F., Johnston, M., Shilatifard, A. Bre1, an E3 ubiquitin ligase required for recruitment and substrate selection of Rad6 at a promoter. Molec. Cell 11: 267-274, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	313104295
NCBI GeneID	9810
UniProt Accession #	O75150 ; Q6AHZ6 ; Q6N005 ; Q7L3T6 ; Q8N615 ; Q96T18 ; Q9BSV9 ; Q9HC82
Molecular Weight	1001
NCBI Official Full Name	E3 ubiquitin-protein ligase BRE1B
NCBI Official Synonym Full Names	ring finger protein 40, E3 ubiquitin protein ligase
NCBI Official Symbol	RNF40
NCBI Official Synonym Symbols	BRE1B; RBP95; STARING
NCBI Protein Information	E3 ubiquitin-protein ligase BRE1B; BRE1-B; Rb-associated protein; BRE1 E3 ubiquitin ligase homolog B; 95 kDa retinoblastoma-associated protein; 95 kDa retinoblastoma protein binding protein
UniProt Protein Name	E3 ubiquitin-protein ligase BRE1B

UniProt Gene Name	RNF40
UniProt Synonym Gene Names	BRE1B; KIAA0661; BRE1-B; RBP95
UniProt Entry Name	BRE1B_HUMAN

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/polyclonal/rnf40-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/127414>