

Rabbit anti-Human, Rat RPB5/POLR2E Polyclonal Antibody | anti-RPB5/POLR2E antibody

Anti-RPB5/POLR2E Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127544	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RPB5/POLR2E; Polyclonal Antibody; Anti-RPB5/POLR2E Antibody Picoband; EGF like domain multiple 6; Epidermal growth factor-like protein 6; EGF-like protein 6; MAM and EGF domains-containing gene protein; EGFL6; MAEG; PP648; UNQ281/PRO320; anti-RPB5/POLR2E antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
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-RPB5/POLR2E antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RPB5/POLR2E recombinant protein (Position: Q95-Q210).
Subcellular Localization	Basement membrane
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	May bind integrin alpha-8/beta-1 and play a role in hair follicle morphogenesis. Promotes matrix assembly (By similarity).
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-RPB5/POLR2E antibody (AAA127544). Overlay histogram showing HeLa cells stained with AAA127544 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPB5/POLR2E Antibody (AAA127544, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of RPB5/POLR2E using anti-RPB5/POLR2E antibody (AAA127544) and anti-Beta Tubulin antibody (M01857-3). RPB5/POLR2E was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RPB5/POLR2E Antibody (AAA127544) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were 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.



WB (Western Blot)

Figure 1. Western blot analysis of RPB5/POLR2E using anti-RPB5/POLR2E antibody (AAA127544). 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 A431 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human MCF-7 whole cell lysates, Lane 5: rat liver tissue 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-RPB5/POLR2E antigen affinity purified polyclonal antibody (#AAA127544) 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 RPB5/POLR2E at approximately 23 kDa. The expected band size for RPB5/POLR2E is at 23-25 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPB5/POLR2E 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-RPB5/POLR2E antibody	Primary Antibodies; Growth Factors/Hormones; Signal Transduction
References	1. Acker, J., Mattei, M.-G., Wintzerith, M., Roeckel, N., Depetris, D., Vigneron, M., Kedinger, C. Chromosomal localization of human RNA polymerase II subunit genes. Genomics 20: 496-499, 1994. 2. Cramer, P., Bushnell, D. A., Fu, J., Gnatt, A. L., Maier-Davis, B., Thompson, N. E., Burgess, R. R., Edwards, A. M., David, P. R., Kornberg, R. D. Architecture of RNA polymerase II and implications for the transcription mechanism. Science 288: 640-648, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14589951
NCBI GeneID	5434
NCBI Accession #	NP_002686.2
NCBI GenBank Nucleotide #	NM_002695.3
UniProt Accession #	P19388; O43380; Q6PIH5; Q9BT06; B2R6L4; D6W5Y1
Molecular Weight	24,551 Da
NCBI Official Full Name	DNA-directed RNA polymerases I, II, and III subunit RPABC1
NCBI Official Synonym Full Names	polymerase (RNA) II (DNA directed) polypeptide E, 25kDa
NCBI Official Symbol	POLR2E
NCBI Official Synonym Symbols	RPB5; XAP4; RPABC1; hRPB25; hsRPB5
NCBI Protein Information	DNA-directed RNA polymerases I, II, and III subunit RPABC1; RPB5 homolog; DNA-directed RNA polymerase II subunit E; RNA polymerases I, II, and III subunit ABC1; DNA directed RNA polymerase II 23 kda polypeptide; DNA-directed RNA polymerase II 23 kDa polyp
UniProt Protein Name	DNA-directed RNA polymerases I, II, and III subunit RPABC1
UniProt Gene Name	POLR2E
UniProt Synonym Gene Names	RNA polymerases I, II, and III subunit ABC1

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/rpb5-polr2e-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127544>