

Rabbit POLR2D Polyclonal Antibody | anti-POLR2D antibody

POLR2D Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326429	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

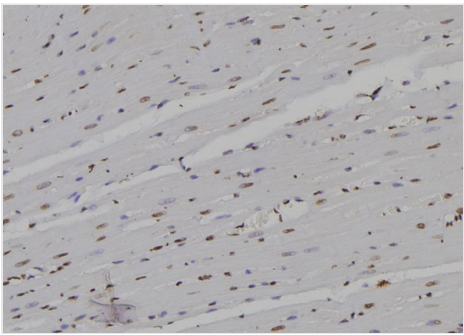
PRODUCT SYNONYMS

POLR2D; Polyclonal Antibody; POLR2D Antibody; DNA directed RNA polymerase II 16 kDa polypeptide; DNA directed RNA polymerase II subunit D; DNA directed RNA polymerase II subunit RPB4; DNA-directed RNA polymerase II 16 kDa polypeptide; DNA-directed RNA polymerase II subunit D; DNA-directed RNA polymerase II subunit rpb4; HSRBP4; HSRPB4; polr2d; polymerase RNA II DNA directed polypeptide D; RBP4; RNA polymerase II 16 kDa subunit; RNA polymerase II subunit B4; RNA polymerase II subunit D; RNA polymerase II subunit hsRBP4; RPB16; RPB4_HUMAN; anti-POLR2D antibody

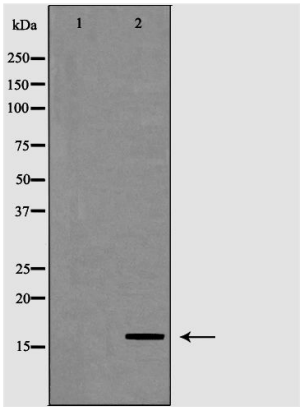
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	POLR2D antibody detects endogenous levels of total POLR2D
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	142
Applicable Applications for anti-POLR2D antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human POLR2D
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (92%), Sheep (83%), Rabbit (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326429 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of mouse heart, using POLR2D antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-POLR2D antibody

Description: This gene encodes the fourth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. In yeast, this polymerase subunit is associated with the polymerase under suboptimal growth conditions and may have a stress protective role. A sequence for a ribosomal pseudogene is contained within the 3' untranslated region of the transcript from this gene. [provided by RefSeq, Jul 2008]
Function: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RPB4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double-stranded DNA to enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA (By similarity).
Subunit Structure: Component of the RNA polymerase II (Pol II) complex consisting of 12 subunits. RPB4 and RPB7 form a subcomplex that protrudes from the 10-subunit Pol II core complex.
Similarity: Belongs to the eukaryotic RPB4 RNA polymerase subunit family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758574
NCBI GeneID	5433
NCBI Accession #	NP_004796.1
NCBI GenBank Nucleotide #	NM_004805.3
UniProt Accession #	O15514; Q52LT4
Molecular Weight	Observed: 16 kDa Predicted: 17 kDa
NCBI Official Full Name	DNA-directed RNA polymerase II subunit RPB4
NCBI Official Synonym Full Names	RNA polymerase II subunit D
NCBI Official Symbol	POLR2D
NCBI Official Synonym Symbols	RBP4; RPB16; HSRBP4; HSRPB4
NCBI Protein Information	DNA-directed RNA polymerase II subunit RPB4
UniProt Protein Name	DNA-directed RNA polymerase II subunit RPB4
UniProt Gene Name	POLR2D

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/polr2d-antibody-immunohistochemistry-western-blot-elisa/326429>