

Rabbit DR1 Polyclonal Antibody | anti-DR1 antibody

Anti-DR1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125641	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

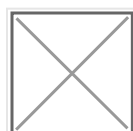
PRODUCT SYNONYMS

DR1; Polyclonal Antibody; Anti-DR1 Antibody; Protein Dr1; Down-regulator of transcription 1; Negative cofactor 2-beta; NC2-beta; TATA-binding protein-associated phosphoprotein; down-regulator of transcription 1; anti-DR1 antibody

PRODUCT SPECIFICATIONS

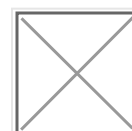
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for DR1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-DR1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human DR1 recombinant protein (Position: N7-A154).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HL-60 cells using anti-DR1 antibody (AAA125641). Overlay histogram showing HL-60 cells stained with AAA125641 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DR1 Antibody (AAA125641, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



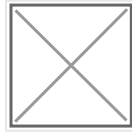
IF (Immunofluorescence)

Figure 4. IF analysis of DR1 using anti-DR1 antibody (AAA125641). DR1 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5µg/mL rabbit anti-DR1 Antibody (AAA125641) overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



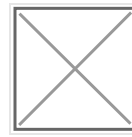
IF (Immunofluorescence)

Figure 3. IF analysis of DR1 using anti-DR1 antibody (AAA125641).DR1 was detected in immunocytochemical section of A431 cells. 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 5µg/mL rabbit anti-DR1 Antibody (AAA125641) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of DR1 using anti-DR1 antibody (AAA125641).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 50ug of sample under reducing conditions.Lane 1: human Sw620 whole cell lysatesLane 2: human Jurkat whole cell lysatesLane 3: human A375 whole cell lysatesLane 4: rat testis tissue lysatesLane 5: mouse testis tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-DR1 antigen affinity purified polyclonal antibody (Catalog # AAA125641) at 0. 5 µg/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 DR1 at approximately 19KD. The expected band size for DR1 is at 19KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of DR1 using anti-DR1 antibody (AAA125641).DR1 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/mL rabbit anti-DR1 Antibody (AAA125641) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-DR1 antibody	Protein Dr1 is a protein that in humans is encoded by the DR1 gene. This gene encodes a TBP- (TATA box-binding protein) associated phosphoprotein that represses both basal and activated levels of transcription. The encoded protein is phosphorylated in vivo and this phosphorylation affects its interaction with TBP. This protein contains a histone fold motif at the amino terminus, a TBP-binding domain, and a glutamine- and alanine-rich region. The binding of DR1 repressor complexes to TBP-promoter complexes may establish a mechanism in which an altered DNA conformation, together with the formation of higher order complexes, inhibits the assembly of the preinitiation complex and controls the rate of RNA polymerase II transcription.
References	<ol style="list-style-type: none">Goppelt, A., Stelzer, G., Lottspeich, F., Meisterernst, M. A mechanism for repression of class II gene transcription through specific binding of NC2 to TBP-promoter complexes via heterodimeric histone fold domains. EMBO J. 15: 3105-3116, 1996.Inostroza, J. A., Mermeistein, F. H., Ha, I., Lane, W. S., Reinberg, D. Dr1, a TATA-binding protein-associated phosphoprotein and inhibitor of class II gene transcription. Cell 70: 477-489, 1992.Kamada, K., Shu, F., Chen, H., Malik, S., Stelzer, G., Roeder, R. G., Meisterernst, M., Burley, S. K. Crystal structure of negative cofactor 2 recognizing the TBP-DNA transcription complex. Cell 106: 71-81, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503381
NCBI GeneID	1810
NCBI Accession #	NP_001929.1
NCBI GenBank Nucleotide #	NM_001938.2
UniProt Accession #	Q01658
Molecular Weight	19,444 Da

NCBI Official Full Name	protein Dr1
NCBI Official Synonym Full Names	down-regulator of transcription 1, TBP-binding (negative cofactor 2)
NCBI Official Symbol	DR1
NCBI Official Synonym Symbols	NC2; NC2-BETA
NCBI Protein Information	protein Dr1; TATA-binding protein-associated phosphoprotein; negative cofactor 2-beta
UniProt Protein Name	Protein Dr1
UniProt Gene Name	DR1
UniProt Synonym Gene Names	NC2-beta
UniProt Entry Name	NC2B_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.

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

Online datasheet: <https://stage.aaabiotech.com/polyclonal/dr1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125641>