

Rabbit anti-Human OXER1 Polyclonal Antibody | anti-OXER1 antibody

Anti-OXER1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127651	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

OXER1; Polyclonal Antibody; Anti-OXER1 Antibody Picoband; Protein NDRG3; ring finger protein 169; E3 ubiquitin-protein ligase RNF169; RING finger protein 169; RING-type E3 ubiquitin transferase RNF169; RNF169; KIAA1991; anti-OXER1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-OXER1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human OXER1 recombinant protein (Position: M1-Q422).
Subcellular Localization	Nucleoplasm
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	Probable E3 ubiquitin-protein ligase that acts as a negative regulator of double-strand breaks (DSBs) repair following DNA damage. Recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168 and competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby acting as a negative regulator of DSBs repair. E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair.
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 2. Flow Cytometry analysis of U937 cells using anti-OXER1 antibody (AAA127651). Overlay histogram showing U937 cells stained with AAA127651 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-OXER1 Antibody (AAA127651, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of OXER1 using anti-OXER1 antibody (AAA127651). 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 THP-1 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-OXER1 antigen affinity purified polyclonal antibody (#AAA127651) 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 OXER1 at approximately 43-46 kDa. The expected band size for OXER1 is at 43-46 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OXER1 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-OXER1 antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage
References	1. Dattilo, M., Neuman, I., Munoz, M., Maloberti, P., Cornejo Maciel, F. OxeR1 regulates angiotensin II and cAMP-stimulated steroid production in human H295R adrenocortical cells. Molec. Cell. Endocr. 408: 38-44, 20152. Enyedi, B., Kala, S., Nikolich-Zugich, T., Niethammer, P. Tissue damage detection by osmotic surveillance. Nature Cell Biol. 15: 1123-1130, 2013.3. Hosoi, T., Koguchi, Y., Sugikawa, E., Chikada, A., Ogawa, K., Tsuda, N., Suto, N., Tsunoda, S., Taniguchi, T., Ohnuki, T. Identification of a novel human eicosanoid receptor coupled to G(i/o). J. Biol. Chem. 277: 31459-31465, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22507376
NCBI GeneID	165140
NCBI Accession #	NP_683765.1
NCBI GenBank Nucleotide #	NM_148962.4
UniProt Accession #	Q8TDS5; Q86WP7; Q8NGW4
Molecular Weight	45,811 Da
NCBI Official Full Name	oxoeicosanoid receptor 1
NCBI Official Synonym Full Names	oxoeicosanoid (OXE) receptor 1
NCBI Official Symbol	OXER1
NCBI Official Synonym Symbols	GPCR; GPR170; TG1019
NCBI Protein Information	oxoeicosanoid receptor 1; G-protein coupled receptor 170; G-protein coupled receptor R527; G-protein coupled receptor TG1019; 5-oxo-ETE G-protein coupled receptor; 5-oxo-ETE acid G-protein-coupled receptor 1
UniProt Protein Name	Oxoieicosanoid receptor 1
UniProt Gene Name	OXER1
UniProt Synonym Gene Names	GPR170; TG1019

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/oxer1-antibody-flow-cytometry-western-blot-elisa/127651>