

Rabbit anti-Human Endothelin A Receptor/ET-A/EDNRA Polyclonal Antibody | anti-EDNRA antibody

Anti-Endothelin A Receptor/ET-A/EDNRA Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125624	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

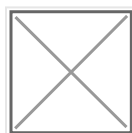
PRODUCT SYNONYMS

Endothelin A Receptor/ET-A/EDNRA; Polyclonal Antibody; Anti-Endothelin A Receptor/ET-A/EDNRA Antibody; Endothelin-1 receptor; Endothelin receptor type A; ET-A; ETA-R; hET-AR; EDNRA; ETA; ETRA; endothelin receptor type A; anti-EDNRA antibody

PRODUCT SPECIFICATIONS

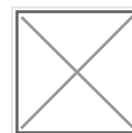
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Endothelin A Receptor/ET-A/EDNRA detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-EDNRA antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Endothelin A Receptor/ET-A/EDNRA recombinant protein (Position: N32-Q381).
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 3. Flow Cytometry analysis of A549 cells using anti-Endothelin A Receptor/ET-A/EDNRA antibody (AAA125624). Overlay histogram showing A549 cells stained with AAA125624 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Endothelin A Receptor/ET-A/EDNRA Antibody (AAA125624, 1µg/ml/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/ml/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/ml/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Endothelin A Receptor/ET-A/EDNRA using anti-Endothelin A Receptor/ET-A/EDNRA antibody (AAA125624). Endothelin A Receptor/ET-A/EDNRA was detected in paraffin-embedded section of human lung cancer 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 1µg/ml rabbit anti-Endothelin A Receptor/ET-A/EDNRA Antibody (AAA125624) 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.



WB (Western Blot)

Figure 1. Western blot analysis of Endothelin A Receptor/ET-A/ EDNRA using anti-Endothelin A Receptor/ET-A/ EDNRA antibody (AAA125624).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 HEK293 whole cell 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-Endothelin A Receptor/ET-A/ EDNRA antigen affinity purified polyclonal antibody (Catalog # AAA125624) 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 1:10000 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 Endothelin A Receptor/ET-A/ EDNRA at approximately 50KD. The expected band size for Endothelin A Receptor/ET-A/ EDNRA is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-EDNRA antibody	This gene encodes the receptor for endothelin-1, a peptide that plays a role in potent and long-lasting vasoconstriction. This receptor associates with guanine-nucleotide-binding (G) proteins, and this coupling activates a phosphatidylinositol-calcium second messenger system. Polymorphisms in this gene have been linked to migraine headache resistance. Alternative splicing results in multiple transcript variants.
References	<div>1. Bourgeois, C., Robert, B., Rebourcet, R., Mondon, F., Mignot, T. -M., Duc-Goiran, P., Ferre, F. Endothelin-1 and ET(A) receptor expression in vascular smooth muscle cells from human placenta: a new ET(A) receptor messenger ribonucleic acid is generated by alternative splicing of exon 3. J. Clin. Endocr. Metab. 82: 3116-3123, 1997.</div> <div>2. Campia, U., Cardillo, C., Panza, J. A. Ethnic differences in the vasoconstrictor activity of endogenous endothelin-1 in hypertensive patients. Circulation 109: 3191-3195, 2004.</div> <div>3. Charite, J., McFadden, D. G., Merlo, G., Levi, G., Clouthier, D. E., Yanagisawa, M., Richardson, J. A., Olson, E. N. Role of Dlx6 in regulation of an endothelin-1-dependent dHAND branchial arch enhancer. Genes Dev. 15: 3039-3049, 2001.</div>

NCBI AND UNIPROT INFORMATION

NCBI GI #	260593650
NCBI GeneID	1909
NCBI Accession #	NP_001159527.1
NCBI GenBank Nucleotide #	NM_001166055.1
UniProt Accession #	P25101; O43441; Q16432; Q16433; Q8TBH2; B2R723; B4E2V6; B7Z9G6; D3DP03; E7ER36; AAB24923
Molecular Weight	48,722 Da
NCBI Official Full Name	endothelin-1 receptor isoform b
NCBI Official Synonym Full Names	endothelin receptor type A
NCBI Official Symbol	EDNRA
NCBI Official Synonym Symbols	ETA; ET-A; ETAR; ETRA; ETA-R; hET-AR
NCBI Protein Information	endothelin-1 receptor; G protein-coupled receptor; endothelin receptor subtype A; endothelin-1-specific receptor
UniProt Protein Name	Endothelin-1 receptor
UniProt Gene Name	EDNRA
UniProt Synonym Gene Names	ETA; ETRA; ET-A; ETA-R; hET-AR
UniProt Entry Name	EDNRA_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/endothelin-a-receptor-et-a-ednra-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125624>