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DATA SHEET

Rabbit Anti-Endothelin A Receptor/ETAR/EDNRA Polyclonal: RC0010

Intended Use: For Research Use Only

Description: 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. The rank order of binding affinities for ET-A is: ET1 > ET2 >> ET3. Polymorphisms in this gene have been linked to migraine headache resistance. Alternative splicing results in multiple transcript variants. Isoform 1, isoform 3 and isoform 4 are expressed in a variety of tissues, with highest levels in the aorta and cerebellum, followed by lung, atrium and cerebral cortex, lower levels in the placenta, kidney, adrenal gland, duodenum, colon, ventricle and liver but no expression in umbilical vein endothelial cells. Within the placenta, isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in the villi and stem villi vessels.

Specifications

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA, < 0.05% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, WB

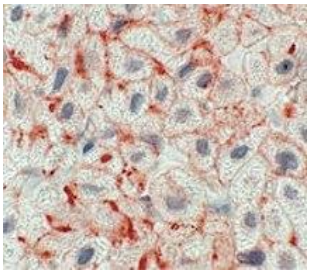
Package:

Description	Catalog No.	Size
Endothelin A Receptor/ETAR/EDNRA Concentrated	RC0010	1 ml

IHC Procedure*

Positive Control Tissue:	Heart tissue, Endothelin A Receptor transfected cells
Concentrated Dilution:	25-100
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE mouse heart stained with anti-Endothelin A Receptor using DAB

References:

1. Reassessment of endothelin receptor A expression in normal and neoplastic human tissues using the novel rabbit monoclonal antibody UMB-8. Lupp A, et al. Peptides 66:19, 2015.
2. Transforming growth factor-β regulates endothelin-1 signaling in the newborn mouse lung during hypoxia exposure. Olave N, et al. American Journal of Physiology. Lung cellular and molecular physiology 302: L857, 2012.

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