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Anti-Endothelin A Receptor Antibody

Catalog # AP51176

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P25101
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48722

Additional Information

Gene ID	1909
Other Names	ETA; ETRA; Endothelin-1 receptor; Endothelin A receptor; ET-A; ETA-R; hET-AR
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Endothelin A Receptor. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

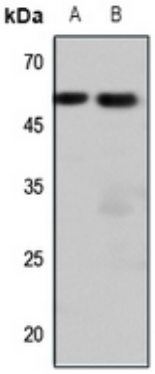
Protein Information

Name	EDNRA (HGNC:3179)
Synonyms	ETA, ETRA
Function	Receptor for endothelin-1. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of binding affinities for ET-A is: ET1 > ET2 >> ET3.
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	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.

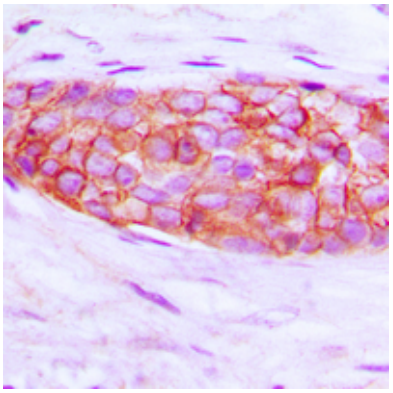
References

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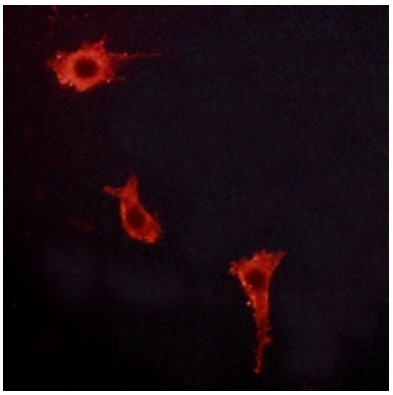
Images



Western blot analysis of Endothelin A Receptor expression in Hela (A), HepG2 (B) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 55 kD)



Immunohistochemical analysis of Endothelin A Receptor staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Endothelin A Receptor staining in LOVO cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.