



Anti-EDN1 monoclonal antibody, clone IC4 (CABT-47607MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Human endothelin 1 antibody, clone IC4 recognizes human endothelin 1 (ET-1). Endothelin-1 in its precursor form is a 212 amino acid protein with a 17 aa signal peptide, an N-terminal pro-peptide region and a C-terminal pro-peptide region flanking the endothelin peptides, big endothelin-1 (38aa), the precursor of the smaller endothelin peptide which is cleaved by endothelin converting enzyme to produce the active endothelin-1 (21aa) peptide and a c-terminal fragment. Endothelin-1 is a potent vasoconstrictor with a molecular weight of approximately 25 kDa. Mouse anti human endothelin 1 antibody, clone IC4 shows less than 10% reactivity with endothelin 3. Plasma levels of both endothelin-1 and big endothelin-1 are useful as predictors for survival of patients with congestive heart failure. However, the half life of the endothelin1 peptide in human plasma is very short (c1.0mins) and measurement of big-endothelin-1 may be a more reliable measure of the endothelin secretory pathway activity.

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| Specificity | EDN1 |
| Immunogen | C-terminal fragment of human endothelin 1. |
| Isotype | IgG1 |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | IC4 |
| Conjugate | Unconjugated |
| Applications | IHC-Fr; IRMA |
| Format | Purified IgG - liquid |

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| Size | 100 µg |
| Preservative | 0.1% Sodium Azide |
| Storage | in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |

GENE INFORMATION

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| Gene Name | EDN1 endothelin 1 [Homo sapiens (human)] |
| Official Symbol | EDN1 |
| Synonyms | EDN1; endothelin 1; ET1; QME; PPET1; ARCND3; HDLCQ7; endothelin-1; preproendothelin-1; |
| Entrez Gene ID | 1906 |
| Protein Refseq | NP_001161791 |
| UniProt ID | P05305 |
| Chromosome Location | 6p24.1 |
| Pathway | Class A/1 (Rhodopsin-like receptors); Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; EGFR-dependent Endothelin signaling events; Endothelin; Endothelins; G alpha (q) signalling events; GPCR downstream signaling; |
| Function | cytokine activity; endothelin A receptor binding; endothelin B receptor binding; hormone activity; protein binding; |