

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EDNRA in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 485711
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human EDNRA Accession # NP_001948
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

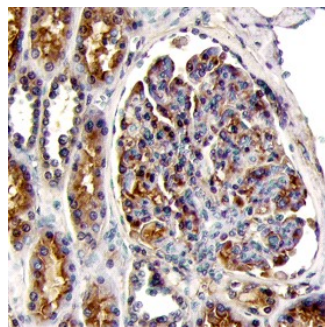
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



EDNRA in Human Kidney. EDNRA was detected in immersion fixed paraffin-embedded sections of human kidney using Human EDNRA Monoclonal Antibody (Catalog # MAB6538) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

EDNRA (endothelin A receptor) is a 427 amino acid (aa) protein of the rhodopsin-like 7-transmembrane receptor family. It can be variably modified by N-linked glycoproteins, phosphorylation and palmitoylation. It binds endothelins ET-1 and ET-2 preferentially, while EDNRB binds all three forms equally. Developmentally, EDNRA is expressed by cranial neural crest cells and induces facial morphogenesis. It is expressed by adult blood vessel smooth muscle cells, and is primarily responsible for the vasoconstrictor effects of ET-1. Human EDNRA shares 86% aa identity with mouse and rat EDNRA within the combined extracellular portions of the molecule.