

**RPCB1117**

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## Product Information

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| <b>Product SKU:</b> RPCB1117 | <b>Gene ID:</b> 1525     | <b>Size:</b> 10µg |
| <b>Tag:</b> C-His            | <b>Reactivity:</b> Human |                   |

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## Additional Information

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|--------------------------------------|--------------------------|
| <b>Expression Host:</b> HEK293 cells | <b>Swissprot:</b> P78310 |
| <b>Purity:</b> > 95% by SDS-PAGE.    |                          |

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## Protein Information

**Background:** CXADR (coxsackie and adenovirus receptor), also known as CAR, is a 46 kDa type I transmembrane glycoprotein that belongs to the CTX family of the Ig superfamily. CXADR has received attention as a receptor that facilitates gene transfer mediated by most adenoviruses. It is also an adhesion molecule within junctional complexes, notably between epithelial cells lining body cavities and within myocardial intercalated discs. It is expressed throughout brain neuroepithelium during development, but mainly in ependymal cells in the adult. The 365 amino acid (aa) human CXADR contains a 19 aa signal sequence, a 218 aa extracellular domain (ECD) with a V-type (D1) and a C2-type (D2) Ig-like domain, a 21 aa transmembrane segment and a 107 aa intracellular domain. D1 is thought to be responsible for homodimer formation in trans within tight junctions. The fiber knob of adenoviruses attaches at a similar site, and evidence suggests that disruption of tight junctions facilitates virus binding. The C-terminus interacts with several cytoplasmic junctional proteins, microtubules and the actin cytoskeleton.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human HCVADR/CXADR Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Endotoxin:** < 0.1 EU/µg of the protein by LAL method.

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**Formulation:** Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

**Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.