

## FCAR/CD89 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75660
Synonyms:	Immunoglobulin Alpha Fc Receptor; IgA Fc Receptor; CD89; FCAR
Species:	Rat
Source:	HEK293
Accession:	D3ZRL6/NP_973721.1 (Q22-N228)
Gene ID:	365183
Molecular Weight:	35-40 kDa

### PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Rat FCAR at 1 µg/mL can bind Rat IgA with an apparent KD is 5.683 nM.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The Fc fragment of the IgA receptor (FCAR) encodes the transmembrane receptor FC-α RI, also known as CD89. FcαRs are found on the cell surface of myeloid cells, including neutrophils, monocytes, macrophages, and eosinophils. FCAR plays a role in both pro-inflammatory and anti-inflammatory responses, depending on its binding status to IgA. FCAR exerts proinflammatory effects by participating in PI3K and PLC-γ signaling. FCAR is also an important Fc receptor for neutrophils to kill tumor cells <sup>[1][2]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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