



Rabbit Anti-CECR1 antibody

SL9005R

Product Name:	CECR1
Chinese Name:	猫眼综合征染色体候选基因1抗体
Alias:	ADGF; Cat eye syndrome chromosome region candidate 1; Cat eye syndrome critical region protein 1; Cat eye syndrome critical region protein 1 precursor; CECR 1; IDGFL; CECR1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testIF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CECR1/ADGF:421-511/511
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CECR1 is a member of the adenosine and AMP deaminases family. It may act as a growth factor and have adenosine deaminase activity. It is a candidate gene for cat eye syndrome. Two transcript variants encoding distinct isoforms have been identified for this gene. Adenosine deaminase is an enzyme that is present in most tissues and exists

predominantly as a monomer, although in some tissues it is associated with adenosine deaminase-binding protein. Adenosine deaminase degrades extracellular adenosine, which is toxic for lymphocytes. A novel family of growth factors that share sequence similarity to adenosine deaminase has been identified. The cat eye syndrome critical region protein (CECR) family includes CECR1, CECR2, CECR3, CECR4, CECR5, CECR6, CECR7, CECR8 and CECR9. The genes encoding CECR proteins are candidates for Cat Eye Syndrome (CES), a developmental disorder associated with the duplication of a 2 Mb region of 22q11.2. CES is characterized by the combination of coloboma of the iris and anal atresia with fistula, downslanting palpebral fissures, preauricular tags and/or pits, frequent occurrence of heart and renal malformations, and normal or near-normal mental development. CECR family members are widely expressed. Specifically, CECR1 has the highest expression in adult heart, lung, lymphoblasts and placenta. CECR2 is also involved in neurulation and chromatin remodeling. Mutations in the CECR2 gene result in neural tube defects.

Function:

Adenosine deaminase that may contribute to the degradation of extracellular adenosine, a signaling molecule that controls a variety of cellular responses. Requires elevated adenosine levels for optimal enzyme activity. Binds to cell surfaces via proteoglycans and may play a role in the regulation of cell proliferation and differentiation, independently of its enzyme activity.

Subunit:

Homodimer. Interacts with adenosine receptors. Binds heparin.

Subcellular Location:

Secreted

Tissue Specificity:

Detected in blood plasma (at protein level). Widely expressed, with most abundant expression in human adult heart, lung, lymphoblasts, and placenta as well as fetal lung, liver, and kidney. In embryo, expressed in the outflow tract and atrium of the developing heart, the VII/VIII cranial nerve ganglion, and the notochord.

Similarity:

Belongs to the adenosine and AMP deaminases family. ADGF subfamily.

SWISS:

Q9NZK5

Gene ID:

51816

Database links:

[Entrez Gene: 51816](#) Human

[Omim: 607575](#) Human

[SwissProt: Q9NZK5](#) Human

[Unigene: 170310](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Blank control: Molt4.

Primary Antibody (green line): Rabbit Anti-CECR1/FITC Conjugated antibody (SL9005R)

Dilution: 1µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG-FITC .

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature. Acquisition of 20,000 events was performed.

Picture: