

Datasheet for ABIN2747354
anti-RCE1/FACE2 antibody (AA 300-350)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	RCE1/FACE2 (RCE1)
Binding Specificity:	AA 300-350
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RCE1/FACE2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	Synthetic peptide taken within amino acid sequence 300-350 on human RCE1 protein.
Isotype:	IgG
Characteristics:	RCE1 selective antibodies are generated against a peptide taken from the C-terminal region spanning AA 310-329. The RCE1-selective antibodies are affinity purified on an immobilized antigen based affinity matrix, the isolated antibodies are then stabilized in antibody stabilization buffer for long-term storage. The AnxA10-selective antibodies are fully characterized for applications in western blotting and ELISA at the recommended dilutions. The Supplier provides RCE1 Western blot positive control samples in SDS-PAGE sample buffer.
Purification:	Affinity Purified

Target Details

Target: RCE1/FACE2 (RCE1)

Alternative Name: RCE1 ([RCE1 Products](#))

Background: Oncogenic protein RAS-converting enzyme 1 (RCE1) is an endoprotease which is involved in prenylation or posttranslational modification of a carboxyl-terminal cysteine residue of proteins that terminate with a CAAX motif such as the nuclear lamins and the RAS family of proteins. After prenylation, the last three residues of CAAX proteins are clipped off by an endoprotease (like RCE1) of the endoplasmic reticulum and the prenylcysteine residue is methylated. Prenylation is essential for the proper intracellular targeting and function of several CAAX motif containing proteins. RCE1 gene encodes an integral membrane protein which is a member of the metalloproteinase family. Studies indicate that the endoproteolytic processing of CAAX proteins is essential for cardiac functions. The heart-specific RCE1 knockout mice but not liver specific-RCE1 knockouts have dilated cardio myopathy with normal liver function. Inactivation of RCE1 mouse fibroblasts inhibits RAS transformation by mislocalization of RAS proteins away from plasma membranes. The inactivation of RCE1 also exacerbates myeloproliferative disease by increasing the flow of immature hematopoietic cells in to circulation and infiltration of cells into liver and spleen leading to death. RCE1 is an important component of the RAS activation pathway and is a potential target for therapeutic intervention. RCE1 gene is 329 AA (40 kDa) and is localized on human chromosome 3q11.

UniProt: [Q9Y256](#)

Application Details

Application Notes: Antibodies were tested in ELISA and western blotting applications at 1:500 dilution using ABIN1686591 samples. Antibody dilutions for these antibodies are for reference only, investigators are expected to determine the optimal conditions. Application of this antibody in other protocols has not yet tested.

WB: > 1:500

IMM & IP pull-down assays: n.d.

IHC: n.d.

Investigators using this antibody in protocols other than listed above can request a complimentary sample of this antibody. n.d. not necessarily means the antibody is not suitable for that application, it simply means we have not yet characterized the antibody in that application.

The antibody labels a strong band of RCE1 of 40 kDa in ABIN1686591 samples and in several cell lines.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.65-0.75 µg/µL

Storage: -20 °C

Storage Comment: Storage of very dilute antibody solutions is not recommended.