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SCAPER Rabbit pAb

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Catalog # AP56635

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BY12
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	158287
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCAPER
Epitope Specificity	31-130/140
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum. Nucleus. Predominantly located in the endoplasmic reticulum, only a small portion is detected in the nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SCAPER is a 1,399 amino acid protein that contains a C2H2-type zinc finger, a putative transmembrane domain, an ER retrieval signal at the C terminus, four coiled-coil domains, six potential RXL motifs that might confer binding to cyclins and six consensus Cdk phosphorylation sites. SCAPER interacts with, and is phosphorylated in vitro by, the cyclin A/Cdk2 complex at multiple phases of the cell cycle, including S and G2/M. It has been suggested that SCAPER represents a novel cyclin A/Cdk2 regulatory protein that transiently maintains cyclin A in the cytoplasm. The SCAPER protein is predominantly located in the endoplasmic reticulum, with only a small portion detected in the nucleus. Widely expressed, SCAPER demonstrates highest expression in testis. Existing as two alternatively spliced isoforms, the SCAPER gene is conserved in chimpanzee, dog, mouse, rat, chicken and zebrafish, and maps to human chromosome 15q24.3.

Additional Information

Gene ID	49855
Other Names	S phase cyclin A-associated protein in the endoplasmic reticulum, S phase cyclin A-associated protein in the ER, Zinc finger protein 291, SCAPER (HGNC:13081), KIAA1454, ZNF291
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	SCAPER (HGNC:13081)
Synonyms	KIAA1454, ZNF291
Function	CCNA2/CDK2 regulatory protein that transiently maintains CCNA2 in the cytoplasm.
Cellular Location	Endoplasmic reticulum. Nucleus Note=Predominantly located in the endoplasmic reticulum, only a small portion is detected in the nucleus
Tissue Location	Widely expressed with high expression in testis. Isoform 1 is detected in various tissues, including retina, fetal and adult brain. Isoform 2 is expressed in the retina at high levels, and in the brain at very low levels (PubMed:28794130)

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.