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CECR2 Rabbit pAb

Catalog # AP98617

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BXF3
Other Accession	Q9BXF3
Reactivity	Human
Predicted	Rat, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	164213
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CECR2
Epitope Specificity	201-300/1484
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 bromo domain.
SUBUNIT	Part of the CECR2-containing remodeling factor (CERF) complex which contains CECR2 and SMARCA1. Interacts with acetylated lysine residues on histone H2A and H3 (in vitro). Interacts with LRPPRC.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Bromodomains are 110 amino acid long domains, that are found in many chromatin associated proteins. Bromodomains can interact specifically with acetylated lysine. This family consists of several mammalian T-cell surface antigen CD2 proteins as well as homologous African swine fever virus sequences.

Additional Information

Gene ID	27443
Other Names	CECR2_HUMAN; CECR2; Cat eye syndrome critical region protein 2; KIAA1740; CECR2 histone acetyl-lysine reader; cat eye syndrome chromosome region, candidate 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	CECR2
Synonyms	KIAA1740
Function	Regulatory subunit of the ATP-dependent CERF-1 and CERF-5 ISWI chromatin remodeling complexes, which form ordered nucleosome arrays on chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (PubMed:15640247, PubMed:22464331, PubMed:26365797, PubMed:28801535). The complexes do not have the ability to slide mononucleosomes to the center of a DNA template (PubMed:28801535). The CERF-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the CERF-5 ISWI chromatin remodeling complex (PubMed:28801535). Plays a role in various processes during development: required during embryogenesis for neural tube closure and inner ear development. In adults, required for spermatogenesis, via the formation of ISWI-type chromatin complexes (By similarity). In histone-modifying complexes, CECR2 recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (PubMed:22464331, PubMed:26365797). May also be involved through its interaction with LRPPRC in the integration of cytoskeletal network with vesicular trafficking, nucleocytosolic shuttling, transcription, chromosome remodeling and cytokinesis (PubMed:11827465).
Cellular Location	Nucleus.
Tissue Location	Highly expressed in skeletal muscle, thymus, placenta and lung. Expressed at lower level in brain, heart, colon, spleen, kidney

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