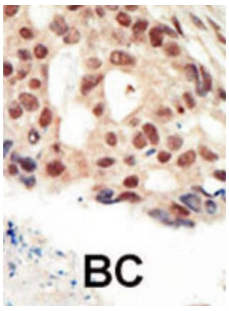
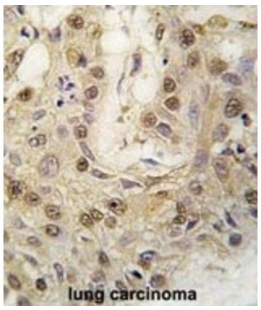
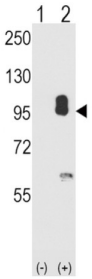
cGKII Antibody

Catalogue No.:abx033809







cGKII is thought to play a key role in a diverse set of physiological pathway. cGKII may mediate intestinal secretion of water and electrolytes induced by the E. coli toxin STa and the intestinal peptide guanylin. Edentification of the pathway that mediates intestinal fluid secretion by E. coli STa has potential medical implications because STa causes traveler's diarrhea and about 50% of infant mortality in developing countries. Transfection experiments in human cells disclose that cGKII phosphorylates SOX9 and attenuates SOX9 function by inhibiting its nuclear entry. Impaired differentiation of cultured KMI chondrocytes can be restored by silencing Sox9 by RNA interference. cGKII is postulated to be a molecular switch that couples the cessation of proliferation and the start of hypertrophic chondrocyte differentiation through attenuating SOX9 function.

Target:	cGKII
Clonality:	Polyclonal
Reactivity:	Human
Tested Applications:	ELISA, WB, IHC

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Host:	Rabbit
Recommended dilutions:	WB: 1/1000, IHC-P: 1/50 - 1/100. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 714-744 amino acids from the C-terminal region of human cGKII.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q13237 (UniProt, ExPASy)
NCBI Accession:	NP_006250.1
KEGG:	hsa:5593
String:	9606.ENSP00000264399
Molecular Weight:	Calculated MW: 87.4 kDa
Buffer:	PBS containing 0.09% sodium azide.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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