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Datasheet for ABIN2782474 anti-RFC3 antibody (C-Term)

1 Image

1 Publication



Overview

Quantity:	100 µL
Target:	RFC3
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Zebrafish (Danio rerio), Guinea Pig, Rabbit, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RFC3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human RFC3
Sequence:	IIMKGLLSEL LHNCDGQLKG EVAQMAAYYE HRLQLGSKAI YHLEAFVAKF
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against RFC3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	RFC3

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Target Details	
Alternative Name:	RFC3 (RFC3 Products)
Background:	The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase
	epsilon requires the accessory proteins proliferating cell nuclear antigen (PCNA) and replication
	factor C (RFC). RFC, also named activator 1, is a protein complex consisting of five distinct
	subunits of 140, 40, 38, 37, and 36 kDa. RFC3 is the 38 kDa subunit. This subunit is essential for
	the interaction between the 140 kDa subunit and the core complex that consists of the 36, 37,
	and 40 kDa subunits. The elongation of primed DNA templates by DNA polymerase delta and
	DNA polymerase epsilon requires the accessory proteins proliferating cell nuclear antigen
	(PCNA) and replication factor C (RFC). RFC, also named activator 1, is a protein complex
	consisting of five distinct subunits of 140, 40, 38, 37, and 36 kDa. This gene encodes the 38 kDa
	subunit. This subunit is essential for the interaction between the 140 kDa subunit and the core
	complex that consists of the 36, 37, and 40 kDa subunits. Alternatively spliced transcript
	variants encoding distinct isoforms have been described.
	Alias Symbols: MGC5276, RFC38
	Protein Interaction Partner: PCNA, TP53, UBC, RPA3, RPA2, RPA1, RPP40, FBX06, ARFGAP1,
	VCP, RFC4, RFC5, RFC2, RFC1, PURB, PURA, MCM3, Cebpb, RAD21, HDGF, SMARCAD1, EBNA-
	LP, MESDC2, MYC, FAN1, MEPCE, USP20, CHTF8, RAD17, BRD4, CHTF18,
	Protein Size: 356
Molecular Weight:	40 kDa
Gene ID:	5983
NCBI Accession:	NM_002915, NP_002906
UniProt:	P40938
Pathways:	Telomere Maintenance, DNA Damage Repair, DNA Replication, Synthesis of DNA
Application Details	
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 356 AA
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific

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Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	

Product cited in:Rayegan, Dehpour, Sharifi: "Studying neuroprotective effect of Atorvastatin as a small molecule
drug on high glucose-induced neurotoxicity in undifferentiated PC12 cells: role of NADPH
oxidase." in: Metabolic brain disease, Vol. 32, Issue 1, pp. 41-49, (2016) (PubMed).

Kuwano, Kawahara, Yamamoto, Teshima-Kondo, Tominaga, Masuda, Kishi, Morita, Rokutan: " Interferon-gamma activates transcription of NADPH oxidase 1 gene and upregulates production of superoxide anion by human large intestinal epithelial cells." in: **American journal of physiology. Cell physiology**, Vol. 290, Issue 2, pp. C433-43, (2006) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-RFC3 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 721_B cell lysate RFC3 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells

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