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anti-NRF1 antibody (Middle Region)





Publication



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Quantity:	100 μg	
Target:	NRF1	
Binding Specificity:	AA 272-288, Middle Region	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Nuclear respiratory factor 1(NRF1) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat.	
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human NRF1(272-288aa QHGREDLLYAFEDQQTQ), identical to the related rat and mouse sequences.	
Sequence:	QHGREDLLYA FEDQQTQ	
Isotype:	IgG	
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.	
Characteristics:	Rabbit IgG polyclonal antibody for Nuclear respiratory factor 1(NRF1) detection. Tested with	

Product Details			
	WB, IHC-P, ICC in Human,Mouse,Rat.		
	Gene Name: nuclear respiratory factor 1		
	Protein Name: Nuclear respiratory factor 1		
Purification:	Immunogen affinity purified.		
Target Details			
Target:	NRF1		
Alternative Name:	NRF1 (NRF1 Products)		
Background:	NRF1(Nuclear Respiratory Factor 1), also known as Alpha-Pal. Gopalakrishnan and		
	Scarpulla(1995) analyzed DNA from a panel of human/hamster cell hybrids using human-		
	specific NRF1 PCR primers and localized the NRF1 gene to human chromosome 7. The		
	assignment was further refined to 7q31 by cohybridization of NRF1- and chromosome 7-		
	specific probes to human metaphase chromosomes. Efiok et al.(1994) identified genes		
	containing alpha-Pal-binding sequences and found that these could be classified either as		
	cellular proliferation genes, or as genes regulating the growth-responsive metabolic pathways		
	of energy transduction, translation, and replication. Virbasius and Scarpulla(1994) noted that		
	the nuclear-encoded mitochondrial transcription factor TFAM contains potential binding sites		
	for NRF1, NRF2(GABPA) and SP1 within the promoter region. With use of binding and		
	electrophoretic mobility shift assays, DNase footprinting, and mutation analysis of recombinant		
	proteins, they demonstrated specific and functional binding of NRF1 and NRF2 to the TFAM		
	promoter region.		
	Synonyms: alpha pal antibody alpha palindromic binding protein antibody Alpha palindromic-		
	binding protein antibody Alpha-pal antibody locus control region factor 1 antibody NFE2 related		
	factor 1 antibody NRF-1 antibody Nrf1 antibody NRF1_HUMAN antibody nuclear		
	factor(erythroid derived 2)-like 1 antibody nuclear respiratory factor 1 antibody transcription		
	factor 11 antibody		

UniProt: Q16656

Pathways: Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes: WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Human, Rat, Predicted Species: Mouse, The detection limit for NRF1 is approximately 2.5 ng/lane under reducing conditions.

Application Details		
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 μg/mL, Tested Species: Human, Predicted Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.	
Preservative:	Thimerosal (Merthiolate), Sodium azide	
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.	

Publications

12 months

Expiry Date:

Product cited in:

Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed).

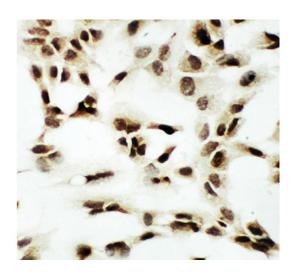
Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed).

Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (Struthio camelus)." in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed).

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

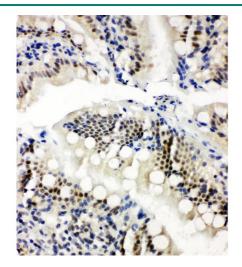
Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) (PubMed).

Validation report #300031 for Immunohistochemistry (IHC)



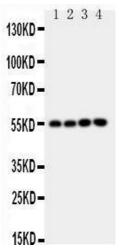
Immunohistochemistry

Image 1. Anti-NRF1 antibody, ICC ICC: A549 Cell



Immunohistochemistry

Image 2. Anti-NRF1 antibody, IHC(P) IHC(P): Rat Intestine Tissue



Western Blotting

Image 3. Anti-NRF1 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Kidney Tissue Lysate Lane 3: MCF-7 Cell Lysate Lane 4: A549 Cell Lysate

Please check the product details page for more images. Overall 6 images are available for ABIN3044020.