P53 Responsive Gene 3 (PRG3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p53 Responsive Gene 3 (PRG3), Polyclonal Antibody
Full Product Name	APC-Linked Polyclonal Antibody to p53 Responsive Gene 3 (PRG3)
Product Gene Name	anti-PRG3 antibody
Product Synonym Names	p53 Responsive Gene 3; AIFM2; AMID; Apoptosis-Inducing Factor,Mitochondrion-Associated 2; p53-responsive gene 3; Apoptosis-inducing factor homologous mitochondrion-associated inducer of death
Immunogen Sequence	Gly2~Pro37 3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months
Matching Pairs	APC Conjugated Antibody: PRG3 (MBS2165403) Immunogen: PRG3 (MBS2105572)
Matching Pairs	Unconjugated Antibody: PRG3 (MBS2169720) APC Conjugated Antibody: PRG3 (MBS2165403)
Molecular Weight	40,527 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (71872023..71892690, complement). Location: 10q22.1
OMIM	605159
3D Structure	ModBase 3D Structure for Q9BRQ8
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	APC
Product Categories/Family for anti-PRG3 antibody	Polyclonal Antibodies (Primary Abs); Primary, APC-conjugated; Tumor immunity
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PRG3 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-PRG3 antibody	WB: 0.2-2ug/mL; 1:250-2500 IHC: 5-20ug/mL; 1:25-100 ICC: 5-20ug/mL; 1:25-100
Related Product Information for anti-PRG3 antibody	MBS2165403 is an antibody targeting PRG3. Also known as APC-Linked Polyclonal Antibody to p53 Responsive Gene 3 (PRG3). Reactive in Human. Host: Rabbit.

Other Notes	Small volumes of anti-PRG3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRG3. It may not necessarily be applicable to this product.

NCBI GI #	311082415
NCBI GeneID	84883
NCBI Accession #	NP_001185625.1
UniProt Primary Accession #	Q9BRQ8
UniProt Secondary Accession #	Q63Z39; B3KXI0
UniProt Related Accession #	Q9BRQ8
GenBank Nucleotide #	NM_001198696.1
NCBI Official Full Name	apoptosis-inducing factor 2
NCBI Official Synonym Full Names	apoptosis-inducing factor, mitochondrion-associated, 2
NCBI Official Symbol	AIFM2
NCBI Official Synonym Symbols	AMID; PRG3; RP11-367H5.2
UniProt Protein Name	Apoptosis-inducing factor 2
UniProt Synonym Protein Names	Apoptosis-inducing factor homologous mitochondrion-associated inducer of death; Apoptosis-inducing factor-like mitochondrion-associated inducer of death; p53-responsive gene 3 protein
Protein Family	Proteoglycan
UniProt Gene Name	AIFM2
UniProt Synonym Gene Names	AMID; PRG3
UniProt Entry Name	AIFM2_HUMAN
NCBI Protein Information	apoptosis-inducing factor 2; p53-responsive gene 3 protein; apoptosis-inducing factor (AIF)-like mitochondrion-associated inducer of death; apoptosis-inducing factor (AIF)-homologous mitochondrion-associated inducer of death
NCBI Summary for PRG3	This gene encodes a flavoprotein oxidoreductase that binds single stranded DNA and is thought to contribute to apoptosis in the presence of bacterial and viral DNA. The expression of this gene is also found to be induced by tumor suppressor protein p53 in colon cancer cells. [provided by RefSeq, Nov 2010]
UniProt Comments for PRG3	AIFM2: Oxidoreductase, which may play a role in mediating a p53/TP53-dependent apoptosis response. Probable oxidoreductase that acts as a caspase-independent mitochondrial effector of apoptotic cell death. Binds to DNA in a sequence-independent manner. May contribute to genotoxin-induced growth arrest. Belongs to the FAD-dependent oxidoreductase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; Mitochondrial; Apoptosis; Membrane protein, integral; EC 1.-.-.- Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: extracellular space; mitochondrial outer membrane; mitochondrion; cytoplasm; integral to membrane; lipid particle; cytosol Molecular Function: FAD binding; NADH dehydrogenase (ubiquinone) activity; DNA binding; electron-transferring-flavoprotein dehydrogenase activity Biological Process: apoptotic mitochondrial changes; positive regulation of apoptosis
Research Articles on PRG3	**1.** Observational study of gene-disease association. (HuGE Navigator)

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