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MACROD1 Rabbit pAb

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Catalog # AP57173

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BQ69
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35505
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MACROD1
Epitope Specificity	101-200/325
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
DISEASE	Note=A chromosomal aberration involving MACROD1 is found in acute leukemia. Translocation t(11;21)(q13;q22) that forms a RUNX1-MACROD1 fusion protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Removes ADP-ribose from glutamate residues in proteins bearing a single ADP-ribose moiety. Inactive towards proteins bearing poly-ADP-ribose. Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins. Plays a role in estrogen signaling. Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen. May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation. Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction. Could be involved in invasive growth by down-regulating CDH1 in endometrial cancer cells. Enhances ESR1-mediated transcription activity.

Additional Information

Gene ID	28992
Other Names	ADP-ribose glycohydrolase MACROD1, MACRO domain-containing protein 1, O-acetyl-ADP-ribose deacetylase MACROD1, 3.1.1.106, Protein LRP16, [Protein ADP-ribosylaspartate] hydrolase MACROD1, 3.2.2.-, [Protein ADP-ribosylglutamate] hydrolase MACROD1, 3.2.2.-, MACROD1 {ECO:0000303|PubMed:23474712, ECO:0000312|HGNC:HGNC:29598}

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.

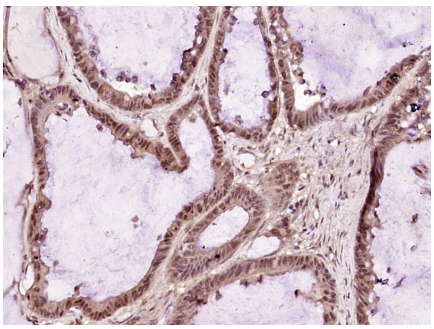
Protein Information

Name	MACROD1 {ECO:0000303|PubMed:23474712, ECO:0000312|HGNC:HGNC:29598}
Function	Removes ADP-ribose from aspartate and glutamate residues in proteins bearing a single ADP-ribose moiety (PubMed:23474712, PubMed:23474714). Inactive towards proteins bearing poly-ADP-ribose (PubMed:23474712, PubMed:23474714). Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins (PubMed:21257746). Plays a role in estrogen signaling (PubMed:17893710, PubMed:17914104, PubMed:19403568). Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen (PubMed:19022849). May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation (PubMed:17893710, PubMed:17914104). Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction (PubMed:17914104). Could be involved in invasive growth by down-regulating CDH1 in endometrial cancer cells (PubMed:17893710). Enhances ESR1-mediated transcription activity (PubMed:17914104).
Cellular Location	Nucleus. Note=Recruited to DNA lesions, probably via mono-APD-ribosylated proteins.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MACROD1) Polyclonal Antibody, Unconjugated (AP57173) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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