

MACROD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57173

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9BQ69
Reactivity	Rat, Pig, Dog, Bovine
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.
SIMILARITY	Contains 1 Macro domain.
SUBUNIT	Interacts with ESR1; Interacts in a manner that is estrogen independent but is enhanced by estrogen. Interacts (via macro domain) with AR.
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

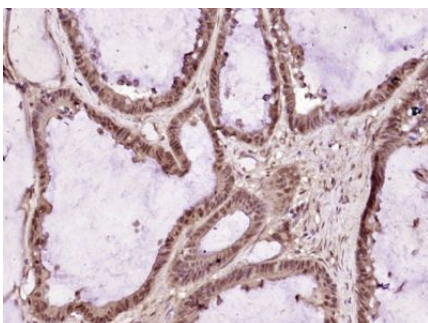
ADP-ribosylglutamate] hydrolase MACROD1, 3.2.2.-, MACROD1
{ECO:0000303 | PubMed:23474712, ECO:0000312 | HGNC:HGNC:29598}

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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

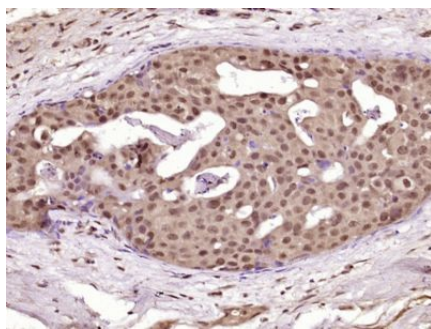
Name	MACROD1 {ECO:0000303 PubMed:23474712, ECO:0000312 HGNC:HGNC:29598}
Function	Removes ADP-ribose from aspartate and glutamate residues in proteins bearing a single ADP-ribose moiety (PubMed: 23474712 , PubMed: 23474714). Inactive towards proteins bearing poly-ADP-ribose (PubMed: 23474712 , PubMed: 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.

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) instructions and DAB staining.

Paraformaldehyde-fixed, paraffin embedded (Human breast 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) instructions and DAB staining.

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