

# GCA Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP22336a

## Product Information

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<b>Application</b>	WB, FC, IF, E
<b>Primary Accession</b>	<a href="#">P28676</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB57950
<b>Calculated MW</b>	24010

## Additional Information

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<b>Gene ID</b>	25801
<b>Other Names</b>	Grancalcin, GCA, GCL
<b>Target/Specificity</b>	This GCA antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 19-53 amino acids from the human region of human GCA.
<b>Dilution</b>	WB~1:2000 FC~1:25 IF~1:25 E~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	GCA Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GCA
<b>Synonyms</b>	GCL
<b>Function</b>	Calcium-binding protein that may play a role in the adhesion of neutrophils to fibronectin. May play a role in the formation of focal adhesions.
<b>Cellular Location</b>	Cytoplasm. Cytoplasmic granule membrane; Peripheral membrane protein;

Cytoplasmic side. Note=Primarily cytosolic in the absence of calcium or magnesium ions. Relocates to granules and other membranes in response to elevated calcium and magnesium levels

## Tissue Location

Detected in neutrophils and macrophages (at protein level). Highly expressed in bone marrow.

## Background

Calcium-binding protein that may play a role in the adhesion of neutrophils to fibronectin. May play a role in the formation of focal adhesions.

## References

Boyhan A.,et al.J. Biol. Chem. 267:2928-2933(1992).

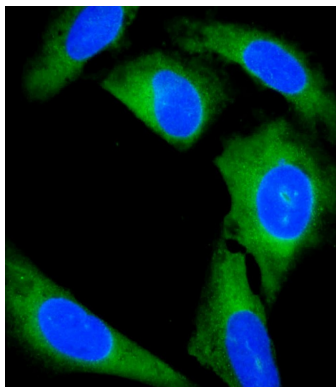
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

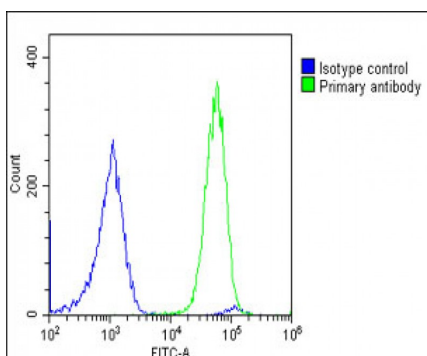
Hillier L.W.,et al.Nature 434:724-731(2005).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

## Images

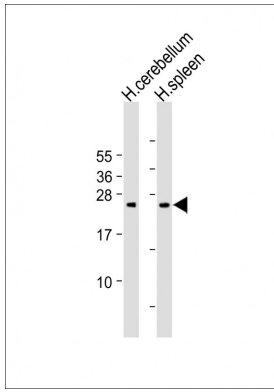


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human osteosarcoma cell line) cells labeling GCA with AP22336a at 1/25 dilution, followed by DyLight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and weak nucleus staining on U-2 OS cell line. Cytoplasmic actin is detected with DyLight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).



Overlay histogram showing U-2 OS cells stained with AP22336a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22336a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-GCA Antibody (N-Term) at 1:2000 dilution  
Lane 1: Human cerebellum lysate Lane 2: Human spleen lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



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