

# Anti-UGCG Antibody

Catalog # AP53709

## Product Information

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Application	WB
Primary Accession	<a href="#">Q16739</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44854

## Additional Information

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Gene ID	7357
Other Names	Ceramide glucosyltransferase; GLCT-1; Glucosylceramide synthase; GCS; UDP-glucose ceramide glucosyltransferase; UDP-glucose:N-acylsphingosine D-glucosyltransferase
Target/Specificity	Recognizes endogenous levels of UGCG protein.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	UGCG ( <a href="#">HGNC:12524</a> )
Function	<p>Participates in the initial step of the glucosylceramide- based glycosphingolipid/GSL synthetic pathway at the cytosolic surface of the Golgi (PubMed:<a href="#">1532799</a>, PubMed:<a href="#">8643456</a>). Catalyzes the transfer of glucose from UDP-glucose to ceramide to produce glucosylceramide/GlcCer (such as beta-D-glucosyl-(11')-N-acylsphing- 4-enine) (PubMed:<a href="#">1532799</a>, PubMed:<a href="#">8643456</a>). GlcCer is the core component of glycosphingolipids/GSLs, amphipathic molecules consisting of a ceramide lipid moiety embedded in the outer leaflet of the membrane, linked to one of hundreds of different externally oriented oligosaccharide structures (PubMed:<a href="#">8643456</a>).</p> <p>Glycosphingolipids are essential components of membrane microdomains that mediate membrane trafficking and signal transduction, implicated in many fundamental cellular processes, including growth, differentiation, migration, morphogenesis, cell-to-cell and cell-to-matrix interactions (By similarity). They are required for instance in the proper development and functioning of the nervous system (By similarity). As an example of their role</p>

in signal transduction, they regulate the leptin receptor/LEPR in the leptin-mediated signaling pathway (By similarity). They also play an important role in the establishment of the skin barrier regulating keratinocyte differentiation and the proper assembly of the cornified envelope (By similarity). The biosynthesis of GSLs is also required for the proper intestinal endocytic uptake of nutritional lipids (By similarity). Catalyzes the synthesis of xylosylceramide/XylCer (such as beta-D-xylosyl-(1'')-N-acylsphing-4- enine) using UDP-Xyl as xylose donor (PubMed:[33361282](#)).

**Cellular Location**

Golgi apparatus membrane; Multi-pass membrane protein  
{ECO:0000250|UniProtKB:Q9R0E0}

**Tissue Location**

Found in all tissues examined.

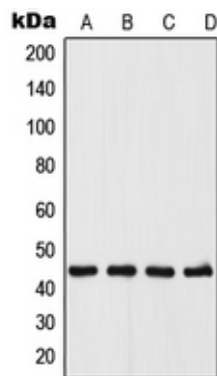
## Background

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Rabbit polyclonal antibody to UGCG

## Images

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Western blot analysis of UGCG expression in A375 (A), MCF7 (B), Raw264.7 (C), PC12 (D) whole cell lysates.

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