



# Anti-GUCY2D (aa 521-630) polyclonal antibody (DPAB-DC1529)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a retina-specific guanylate cyclase, which is a member of the membrane guanylyl cyclase family. Like other membrane guanylyl cyclases, this enzyme has a hydrophobic amino-terminal signal sequence followed by a large extracellular domain, a single membrane spanning domain, a kinase homology domain, and a guanylyl cyclase catalytic domain. In contrast to other membrane guanylyl cyclases, this enzyme is not activated by natriuretic peptides. Mutations in this gene result in Leber congenital amaurosis and cone-rod dystrophy-6 diseases.
<b>Immunogen</b>	GUCY2D (NP_000171, 521 a.a. ~ 630 a.a) partial recombinant protein with GST tag. The sequence is RKVAQGSRSSLGARSMSDIRSGPSQHLDSPNIGVYEGDRVWLKKFPGDQHIAIRPATKTA FSKLQELRHENVALYLGLFLARGAEGPAALWEGNLAVVSEHCTRGSLLQDL
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GUCY2D guanylate cyclase 2D, membrane (retina-specific) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	GUCY2D
<b>Synonyms</b>	GUCY2D; guanylate cyclase 2D, membrane (retina-specific); LCA; CYGD; LCA1; RCD2; CORD5; CORD6; GUC2D; ROSGC; retGC; GUC1A4; RETGC-1; ROS-GC1; retinal guanylyl cyclase 1; ROS-GC; cone rod dystrophy 6; guanylate cyclase 2D, retinal; rod outer segment membrane guanylate cyclase;
<b>Entrez Gene ID</b>	<a href="#">3000</a>
<b>Protein Refseq</b>	<a href="#">NP_000171</a>
<b>UniProt ID</b>	<a href="#">Q02846</a>
<b>Chromosome Location</b>	17p13.1
<b>Pathway</b>	Disease; Inactivation, recovery and regulation of the phototransduction cascade; Olfactory transduction; Phototransduction.
<b>Function</b>	ATP binding; GTP binding; guanylate cyclase activity; protein kinase activity