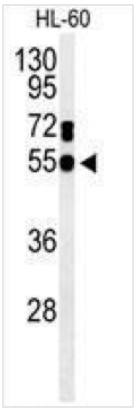
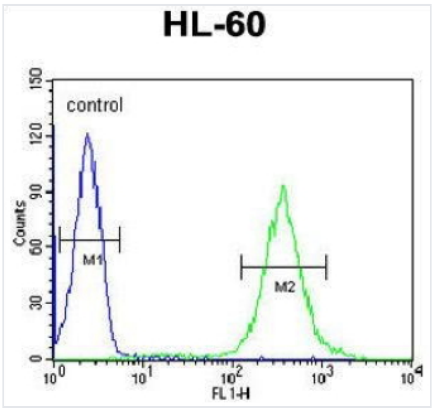
GDA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GDA, Polyclonal Antibody
Full Product Name	GDA, NT (GDA, KIAA1258, Guanine deaminase, Guanine aminohydrolase, p51-nedasin) (MaxLight 405)
Product Gene Name	anti-GDA antibody
Product Synonym Names	GDA; KIAA1258; Guanine deaminase; Guanine aminohydrolase; p51-nedasin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human GDA.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	52,837 Da
OMIM	139260
3D Structure	ModBase 3D Structure for Q9Y2T3
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 94-122 in the N-terminal region of human GDA.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-GDA antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-GDA antibody	Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-GDA antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GDA antibody	GDA is an enzyme that catalyzes the hydrolytic deamination of guanine, producing xanthine and ammonia.
Product References and Citations for anti-GDA antibody	1. Akum, B.F., et al. Nat. Neurosci. 7(2):145-152(2004). 2. Kuwahara, H., et al. J. Biol. Chem. 274(45):32204-32214(1999). 3. Firestein, B.L., et al. Neuron 24(3):659-672(1999)
Other Notes	Small volumes of anti-GDA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GDA purchase	MBS6301769 is an antibody targeting GDA. Also known as GDA, NT (GDA, KIAA1258, Guanine deaminase, Guanine aminohydrolase, p51-nedasin) (MaxLight 405). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GDA antibody
Western Blot analysis in HL-60 cell line lysates (35ug/lane) usingMBS642815. GDA (arrow) was detected usingMBS642815.



Flow Cytometry (FC/FACS) of anti-GDA antibody
Flow Cytometric analysis of HL-60 cells using MBS642815 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDA. It may not necessarily be applicable to this product.

NCBI GI #	335335014
NCBI GeneID	9615
NCBI Accession #	NP_001229434.1
UniProt Primary Accession #	Q9Y2T3
UniProt Secondary Accession #	Q5SZC7; Q9H335; Q9ULG2; B4DTY5
UniProt Related Accession #	Q9Y2T3
GenBank Nucleotide #	NM_001242505.2
NCBI Official Full Name	guanine deaminase isoform a
NCBI Official Synonym Full Names	guanine deaminase
NCBI Official Symbol	GDA
NCBI Official Synonym Symbols	CYPIN; GUANASE; NEDASIN
UniProt Protein Name	Guanine deaminase
UniProt Synonym Protein Names	Guanine aminohydrolase; GAH; p51-nedasin
Protein Family	Graves disease carrier protein
UniProt Gene Name	GDA
UniProt Synonym Gene Names	KIAA1258; Guanase; Guanine aminase; GAH
UniProt Entry Name	GUAD_HUMAN
NCBI Protein Information	guanine deaminase; GAH; cytoplasmic PSD95 interactor; guanine aminase; guanine aminohydrolase; p51-nedasin
NCBI Summary for GDA	This gene encodes an enzyme responsible for the hydrolytic deamination of guanine. Studies in rat ortholog suggest this gene plays a role in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

UniProt Comments for GDA	GDA: Catalyzes the hydrolytic deamination of guanine, producing xanthine and ammonia. Belongs to the ATZ/TRZ family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.5.4.3; Nucleotide Metabolism - purine; Hydrolase Chromosomal Location of Human Ortholog: 9q21.13 Cellular Component: intracellular; cytosol Molecular Function: guanine deaminase activity; zinc ion binding Biological Process: nervous system development; nucleobase, nucleoside and nucleotide metabolic process; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; purine nucleotide catabolic process; guanine catabolic process; purine base metabolic process
Research Articles on GDA	**1.** This protein has been found differentially expressed in thalami from patients with schizophrenia.
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