

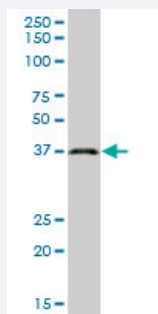
MaxPab®

# GALE purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00002582-B01P

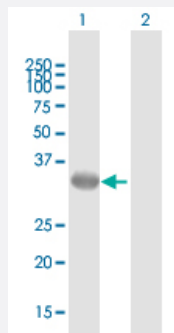
Size 50 ug

## Applications



### Western Blot (Tissue lysate)

GALE MaxPab polyclonal antibody. Western Blot analysis of GALE expression in human colon.



### Western Blot (Transfected lysate)

Western Blot analysis of GALE expression in transfected 293T cell line ([H00002582-T01](#)) by GALE MaxPab polyclonal antibody.

Lane 1: GALE transfected lysate(38.28 KDa).

Lane 2: Non-transfected lysate.

## Specification

### Product Description

Mouse polyclonal antibody raised against a full-length human GALE protein.

### Immunogen

GALE (NP\_000394.2, 1 a.a. ~ 348 a.a) full-length human protein.

### Sequence

MAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGGSLPESLRRVQELTGRSVEFEEM  
DILDQGALQRLFKKYSFMAVIHFAGLKAVGESVQKPLDYRVNLTGTIQLLEIMKAHGVKNLVFSSS  
ATVYGNPQYLPLDEAHPTGGCTNPYGKSKFFIEEMIRDLQCQADKTWNAVLLRYFNPTGAHASGCIG  
EDPQGIPNNLMPYVSQVAIGRREALNVFGNDYDTEGTGVRDYIHVVDLAKGHIAALRKLKEQCG  
CRIYNLGTGTGYSVLQMVMQAMEKASGKKIPYKVVARREGDVAACYANPSLAQEELGWTAALGLD  
RMCEDLWRWQKQNPSGFGTQA

### Host

Mouse

Reactivity	Human
Interspecies Antigen Sequence	Rat (93)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

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## Gene Info — GALE

Entrez GeneID	<a href="#">2582</a>
GeneBank Accession#	<a href="#">NM_000403.3</a>
Protein Accession#	<a href="#">NP_000394.2</a>
Gene Name	GALE
Gene Alias	FLJ95174, FLJ97302, SDR1E1
Gene Description	UDP-galactose-4-epimerase
Omim ID	<a href="#">230350 606953</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes UDP-galactose-4-epimerase which catalyzes two distinct but analogous reactions: the epimerization of UDP-glucose to UDP-galactose, and the epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The bifunctional nature of the enzyme has the important metabolic consequence that mutant cells (or individuals) are dependent not only on exogenous galactose, but also on exogenous N-acetylgalactosamine as a necessary precursor for the synthesis of glycoproteins and glycolipids. Mutations in this gene result in epimerase-deficiency galactosemia, also referred to as galactosemia type 3, a disease characterized by liver damage, early-onset cataracts, deafness and mental retardation, with symptoms ranging from mild ('peripheral' form) to severe ('generalized' form). Multiple alternatively spliced transcripts encoding the same protein have been identified. [provided by RefSeq]

**Other Designations**

OTTHUMP00000002991|OTTHUMP00000044857|UDP galactose-4'-epimerase|galactose-4-epimerase, UDP-[galactowaldenase|short chain dehydrogenase/reductase family 1E, member 1

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Galactose metabolism](#)
- [Metabolic pathways](#)