DNAxPAb | Hard-to-Find Antibody

# GALE DNAxPab

Catalog # H00002582-W02P Size 200 ug

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against a full-length human GALE DNA using DNAx™ Immune tec hnology. |
| **Technology** | DNAx™ Immune |
| **Immunogen** | Full-length human DNA |
| **Sequence** | MAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGGSLPESLRRVQELTGRSVEFEEM DILDQGALQRLFKKYSFMAVIHFAGLKAVGESVQKPLDYYRVNLTGTIQLLEIMKAHGVKNLVFSSS ATVYGNPQYLPLDEAHPTGGCTNPYGKSKFFIEEMIRDLCQADKTWNAVLLRYFNPTGAHASGCIG EDPQGIPNNLMPYVSQVAIGRREALNVFGNDYDTEDGTGVRDYIHVVDLAKGHIAALRKLKEQCG CRIYNLGTGTGYSVLQMVQAMEKASGKKIPYKVVARREGDVAACYANPSLAQEELGWTAALGLD RMCEDLWRWQKQNPSGFGTQA |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Purification** | Protein A |
| **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. |

## Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

## Gene Info — GALE

| | |
|---|---|
| **Entrez GeneID** | 2582 |
| **GeneBank Accession#** | NM_000403.3 |
| **Protein Accession#** | NP_000394.2 |
| **Gene Name** | GALE |
| **Gene Alias** | FLJ95174, FLJ97302, SDR1E1 |
| **Gene Description** | UDP-galactose-4-epimerase |
| **Omim ID** | 230350 606953 |
| **Gene Ontology** | Hyperlink |
| **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