

# **Product datasheet for TA502146S**

### OriGene Technologies, Inc.

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## **GALE Mouse Monoclonal Antibody [Clone ID: OTI1C4]**

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI1C4
Applications: IHC, WB

Recommended Dilution: WB 1:500~2000, IHC 1:150

Reactivity: Human, Dog, Rat, Monkey, Mouse

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human GALE (NP\_000394) produced in HEK293T

cell

**Formulation:** PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Predicted Protein Size:** 38.1 kDa

**Gene Name:** UDP-galactose-4-epimerase

Database Link: NP 000394

Entrez Gene 74246 MouseEntrez Gene 114860 RatEntrez Gene 100855555 DogEntrez Gene

710553 MonkeyEntrez Gene 2582 Human

Q14376





#### Background:

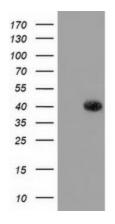
This gene encodes UDP-galactose-4-epimerase which catalyzes two distinct but analogous reactions: the epimerization of UDP-glucose to UDP-galactose, and the epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The bifunctional nature of the enzyme has the important metabolic consequence 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, Jul 2008]

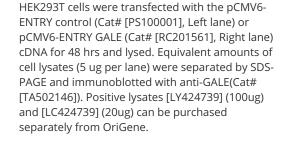
Synonyms: SDR1E1

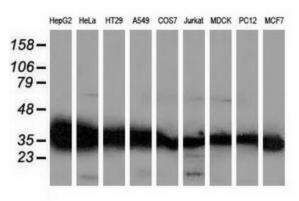
**Protein Families:** Druggable Genome

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways

### **Product images:**

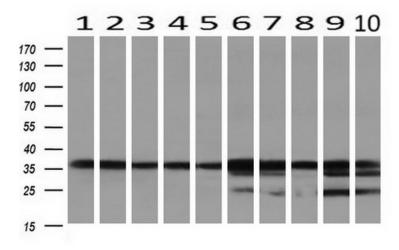




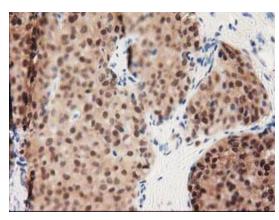


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GALE monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

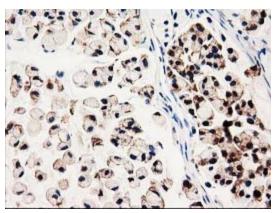




Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-GALE monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).

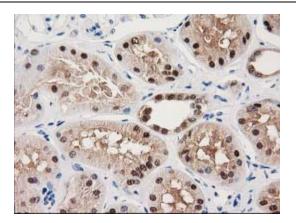


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human breast tissue using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

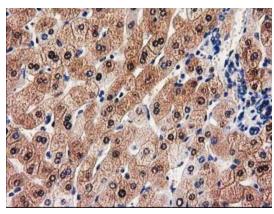


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

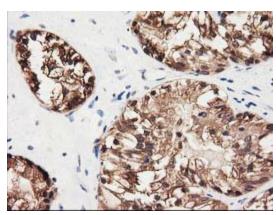




Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

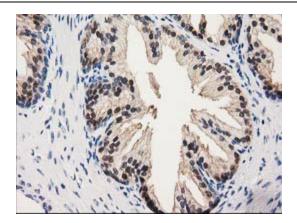


Immunohistochemical staining of paraffinembedded Human liver tissue within the normal limits using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

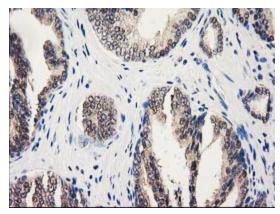


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

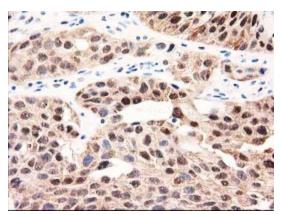




Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])

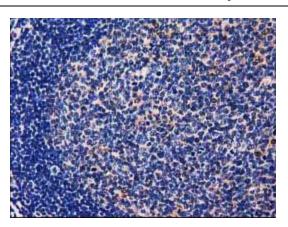


Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])



Immunohistochemical staining of paraffinembedded Carcinoma of Human bladder tissue using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])





Immunohistochemical staining of paraffinembedded Human lymph node tissue within the normal limits using anti-GALE mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502146])