

# IHC*easy* GLUT3 Ready-To-Use IHC Kit

Catalog Number: **KHC0090**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

## Background

GLUT3 (SLC2A3) belongs to the glucose transporter family (GLUTs) which mediates the transport of glucose across cellular membranes in mammalian cells. There are three subclasses within GLUTs: class I comprises the classical transporters GLUT1-4 and GLUT14; class II contains the "odd" isoforms GLUT5, 7, 9, and 11; the isoforms GLUT6, 8, 10, 12 and the proton driven myoinositol transporter HMIT (GLUT13) belong to class III. GLUT3 is considered as a neuron-specific glucose transporter because of its dominant expression in the brain in various species. However, besides the brain GLUT3 is also expressed in tissues with high demand for glucose such as sperm, preimplantation embryos, circulating white blood cells, and an array of carcinoma cell lines. Recently GLUT3 has been identified as a sensitive and specific marker for embryonal carcinomas and yolk tumors. GLUT14 is believed to be the duplicate gene of GLUT3 given to the high identity in sequence between them. Primary antibody in this kit was generated against the internal region of human GLUT3 and may cross-react with GLUT14.

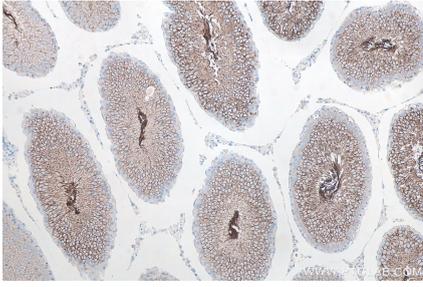
## Synonyms

GLUT 3, GLUT3, SLC2A3

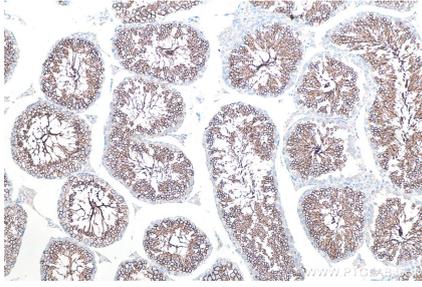
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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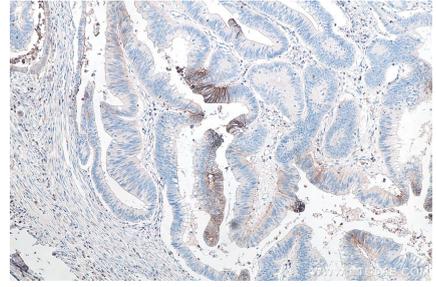
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC0090 (GLUT3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC0090 (GLUT3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using KHC0090 (GLUT3 IHC Kit).