GCK (R43) polyclonal antibody

Catalog: BS2879 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Glucokinase (also designated hexokinase IV, HXKIV or GCK) plays a key role in the regulation of glucose-induced insulin secretion. GCK is expressed in pancreatic beta cells where it functions as the major glucose sensor of the body, determining the "set point" for insulin secretion. GCK is also expressed in the liver, where it catalyzes the first committed step in the disposal of glucose. Phosphorylation of glucose by glucokinase appears to be the ratelimiting step for glucose catabolism. A lack of glucokinase activity leads to reduced insulin secretion and hyperglycemia, and has been implicated as a cause for maturity onset diabetes of the youth (MODY). In fact, heterozygous point mutations in the gene encoding GCK have been detected in individuals suffering from MODY.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 52 kDa

Swiss-Prot:

P35557

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

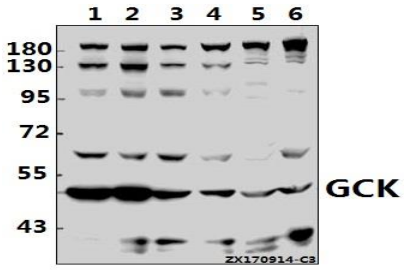
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

GCK (R43) polyclonal antibody detects endogenous levels of GCK protein.

DATA:



Western blot (WB) analysis of GCK (R43) pAb at 1:500 dilution

Lane1:Panc1 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:PC3 whole cell lysate(40ug)

Lane4:SGC7901 whole cell lysate(40ug)

Lane5:AML-12 whole cell lysate(40ug)

Lane6:C6 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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