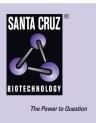
## SANTA CRUZ BIOTECHNOLOGY, INC.

# KIAA1614 (Q-20): sc-247325



### BACKGROUND

KIAA1614 is a 1,190 amino acid uncharacterized protein. Existing as two alternatively spliced isoforms, KIAA1614 is encoded by a gene that maps to human chromosome 1q25.3 and mouse chromosome 1 G3. Chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. A large number of disease-associated genes are associated with chromosome 1, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

### REFERENCES

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- Lau, E.K., et al. 1999. Two novel polymorphic sequences in the glucocerebrosidase gene region enhance mutational screening and founder effect studies of patients with Gaucher disease. Hum. Genet. 104: 293-300.
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#### CHROMOSOMAL LOCATION

Genetic locus: KIAA1614 (human) mapping to 1q25.3; BC034090 (mouse) mapping to 1 G3.

#### SOURCE

KIAA1614 (Q-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA1614 of human origin.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247325 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

KIAA1614 (Q-20) is recommended for detection of KIAA1614 of human origin and BC034090 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BC034090 siRNA (m): sc-141572, BC034090 shRNA Plasmid (m): sc-141572-SH and BC034090 shRNA (m) Lentiviral Particles: sc-141572-V.

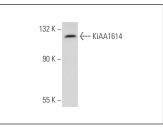
Molecular Weight of KIAA1614 isoforms 1/2: 127-86 kDa.

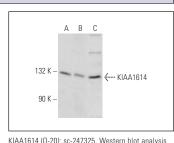
Positive Controls: Jurkat whole cell lysate: sc-2204, mouse cerebellum extract: sc-2403 or Hep G2 cell lysate: sc-2227.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### DATA





KIAA1614 (Q-20): sc-247325. Western blot analysis of KIAA1614 expression in Jurkat whole cell lysate.

KIAA1614 (U-2U). SC-247320. Western blot analysis of KIAA1614 expression in mouse cerebellum tissue extract (**A**) and U-87 MG (**B**) and Hep G2 (**C**) whole cell lysates

#### **RESEARCH USE**

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