

ANKRD30A (N-12): sc-163687

BACKGROUND

Ankyrins are membrane adaptor molecules that play important roles in coupling integral membrane proteins to the spectrin-based cytoskeleton network. Mutations of ankyrin genes lead to severe genetic diseases, such as fatal cardiac arrhythmias and hereditary spherocytosis. ANKRD30A (ankyrin repeat domain 30A), also known as serologically defined breast cancer antigen NY-BR-1, is a 1,397 amino acid coiled-coil protein. Containing six ANK repeats and thirty-seven exons, ANKRD30A is a distant homolog of the POTE family. Initiated by either Dnmt1 or Met-57, ANKRD30A is highly expressed in breast and testis, and faintly in placenta. Present in 80% of breast cancers, but not in other types of tumors, ANKRD30A is a differentiation antigen and a potential target for antibody based therapies in breast cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD30A (human) mapping to 10p11.21.

STORAGE

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

SOURCE

ANKRD30A (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ANKRD30A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163687 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD30A (N-12) is recommended for detection of ANKRD30A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other ANKRD family members.

Suitable for use as control antibody for ANKRD30A siRNA (h): sc-90829, ANKRD30A shRNA Plasmid (h): sc-90829-SH and ANKRD30A shRNA (h) Lentiviral Particles: sc-90829-V.

Molecular Weight of ANKRD30A: 159 kDa.

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) 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.