

DP-3 (8G11): sc-134321

BACKGROUND

DP-3, also known as TFDP3 (transcription factor Dp family, member 3), HCA661 (hepatocellular carcinoma-associated antigen 661) or CT30 (cancer/testis antigen 30), is a 405 amino acid protein that localizes to the nucleus and belongs to the E2F/DP family. Expressed predominately in testis, but also present at low levels in other tissues, DP-3 functions to regulate the activity of E2F transcription factor proteins and, via this regulation, plays a role in E2F-mediated apoptosis and may be involved in tumor growth and metastasis. The gene encoding DP-3 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

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CHROMOSOMAL LOCATION

Genetic locus: TFDP3 (human) mapping to Xq26.2.

SOURCE

DP-3 (8G11) is a mouse monoclonal antibody raised against recombinant DP-3 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DP-3 (8G11) is recommended for detection of DP-3 of human 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DP-3 siRNA (h): sc-106735, DP-3 shRNA Plasmid (h): sc-106735-SH and DP-3 shRNA (h) Lentiviral Particles: sc-106735-V.

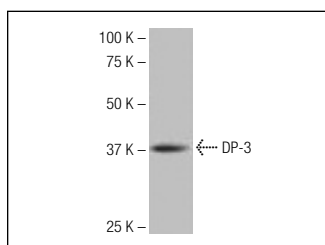
Molecular Weight of DP-3: 45 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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).

DATA



DP-3 (8G11): sc-134321. Western blot analysis of DP-3 expression in IMR-32 whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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