Human PIG3/TP53I3 antibody

Catalog Number: ATGA0227

PRODUCT INFORMATION

Catalog number
ATGA0227

Clone No.
AT1C9

Product type
Monoclonal Antibody

UnitProt No.
Q53FA7

NCBI Accession No.
NP_671713

Alternative Names
Quinone oxidoreductase PIG3, NADPH:quinone reductase PIG3, Tumor protein p53-inducible protein 3, p53-induced gene 3 protein

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human TP53I3 (1-332aa) purified from E. coli

Isotype
IgG2a kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Human PIG3/TP53I3 antibody

Catalog Number: ATGA0227

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

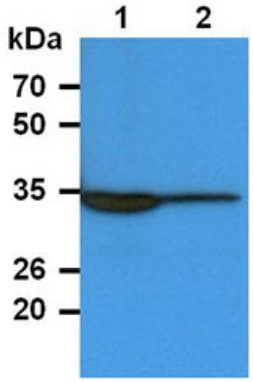
TP53I3 participates in the generation of reactive oxygen species (ROS). TP53I3 has low NADPH-dependent naphtoquinone reductase activity, with a preference for 1, 2-naphtoquinone over 1, 4-naphtoquinone. TP53I3 has low NADPH-dependent diamine reductase activity (in vitro). TP53I3 is localized to the cytoplasm and induced in primary, non-transformed and transformed cell cultures after exposure to genotoxic agents. TP53I3 microsatellite polymorphism is associated with differential susceptibility to cancer.

General References

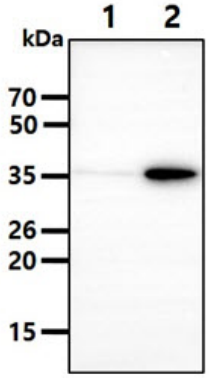
Porte S, et al. (2009) J Biol Chem.. 284(25):17194-205.
Flatt PM. et al. (2000) Cancer Lett. 156(1):63-72.
J Biol Chem. (2009 Jun 19) 284(25):17194-205.

DATA

Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TP53I3 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1. : A549 cell lysate
Lane 2. : SW480 cell lysate

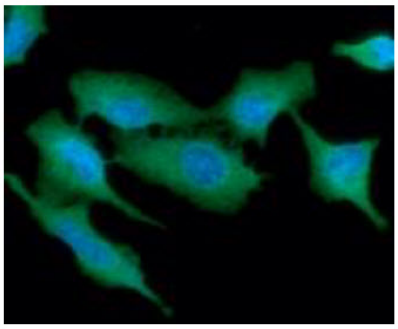


The Cell lysates (1ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TP53I3 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: TP53I3 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

Human PIG3/TP53I3 antibody

Catalog Number: ATGA0227



ICC/IF analysis of TP53I3 in A549 cells. The cell was stained with ATGA0227 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).