

CoraLite® Plus 488-conjugated AKT2 Polyclonal antibody

Catalog Number: **CL488-28113**

Basic Information

Catalog Number:

CL488-28113

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27005

GenBank Accession Number:

BC120994

GeneID (NCBI):

208

UNIPROT ID:

P31751

Full Name:

v-akt murine thymoma viral
oncogene homolog 2

Observed MW:

56 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

Human, mouse

Positive Controls:

IF/ICC : NIH/3T3 cells,

Background Information

AKT2 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis and their activation has been observed in a wide variety of cancers. AKT2 is mainly involved in cancer cell survival, apoptosis inhibition, migration and invasion (PMID:21979951). Defects in AKT2 are a cause of susceptibility to breast cancer (BC). AKT2 promotes metastasis of tumor cells without affecting the latency of tumor development. And defects in AKT2 are a cause of non-insulin-dependent diabetes mellitus (NIDDM) and hypoinsulinemic hypoglycemia with hemihypertrophy (HIHGH). The full length protein has four glycosylation sites.

Storage

Storage:

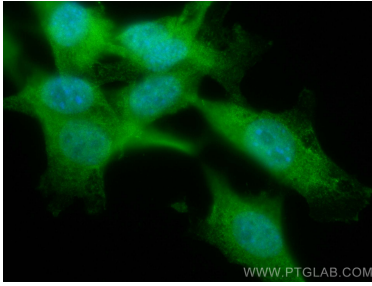
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

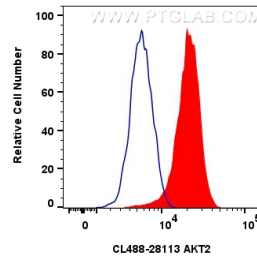
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using Coralite® Plus 488 AKT2 antibody (CL488-28113) at dilution of 1:200.



1x10⁶ NIH/3T3 cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Akt2 Polyclonal Antibody (CL488-28113)(red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).