For Research Use Only

CoraLite® Plus 647-conjugated Beta Actin Recombinant antibody



Catalog Number: CL647-81115

Basic Information

Catalog Number: CL647-81115

1000 µg/ml

GenBank Accession Number: BC002409

GeneID (NCBI):

60

Source: UNIPROT ID: Rabbit P60709

Isotype: Full Name: actin, beta

Immunogen Catalog Number: Calculated MW:

AG14521 375 aa, 42 kDa Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

Recommended Dilutions:

IF 1:250-1:1000

Excitation/Emission maxima

wavelengths: 654 nm / 674 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human, pig, rat, mouse, canine

Positive Controls:

IF: MDCK cells,

Background Information

Beta Actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 37-40, 31, 15 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody was generated against N-terminal region of human beta actin protein and can cross-react with other actins. (9173887, 11217076, 10229193)

Storage

Storage:

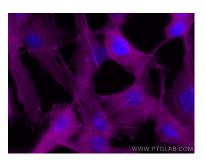
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

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 (-20°C Methanol) fixed MDCK cells using Coralite® Plus 647 Beta Actin antibody (CL647-81115, Clone: 4H1) at dilution of 1:500.