

For Research Use Only

# CoraLite® Plus 488-conjugated KGA-Specific Polyclonal antibody



Catalog Number: CL488-20170

Featured Product

## Basic Information

Catalog Number:

CL488-20170

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14002

GenBank Accession Number:

BC038507

GeneID (NCBI):

2744

UNIPROT ID:

O94925

Full Name:

glutaminase

Calculated MW:

669 aa, 73 kDa

Observed MW:

66 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF : HEK-293 cells,

## Background Information

GLS, also named as GLS1 and KIAA0838, belongs to the glutaminase family. It catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Glutaminase-, glutamate-, and taurine-immunoreactive neurons develop neurofibrillary tangles in Alzheimer's disease. The glutaminase band in AA/C1 cells is more intense than in HT29 cells, in accordance with measurements of glutaminase activity, and had the same molecular mass of approx 63 kDa. The bands for both cell lines are clearly different in size from both rat liver glutaminase (58 kDa) and rat kidney glutaminase (65 kDa)(PMID:12408749). It also reveals a molecular weight of 83-84 kDa as a phosphate-dependent glutaminase(PMID:447624;7512428). It has 3 isoforms produced by alternative splicing named as KGA, GAM, GAC. This antibody is specific to KGA.

## 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

For technical support and original validation data for this product please contact:

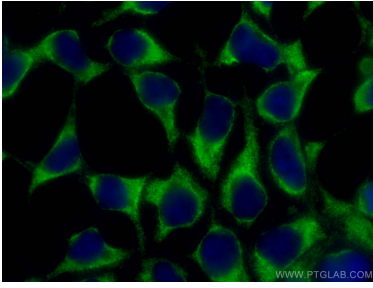
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CoraLite® Plus 488 KGA-Specific antibody (CL488-20170) at dilution of 1:200.