For Research Use Only

RCAS1 Monoclonal antibody

Catalog Number:66170-1-Ig 1 Publications

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Basic Information

Catalog Number:
66170-1-Ig

Size:
1192 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG2905

GenBank Accession Number:
BC017729

GeneID (NCBI):
9166

UNIPROT ID:
O00559

Full Name:
estrogen receptor binding site associated, antigen, 9

Calculated MW:
213 aa, 24 kDa

Observed MW:
34 kDa

Purification Method:
Protein G purification

CloneNo.:
4H8A12

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
FC, IF/ICC,IF-P, IHC, WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells,

IHC : human breast cancer tissue, human lung cancer tissue

IF : MCF-7 cells, human breast cancer tissue

Background Information

Estrogen receptor-binding fragment-associated antigen 9 (EBAG9) gene was identified as an estrogen-responsive gene. The gene product, receptor-binding cancer antigen expressed on SiSo cells (RCAS1), is associated with aggressive characteristics and poor overall survival for 15 different human malignancies. The correlation between RCAS1 expression and several clinicopathological variables, including tumor size, clinical stage, invasion depth and lymph node metastasis highlights this molecule's clinical significance. Expression of RCAS1 in tumor cells plays an important role in evasion from host immune system resulting tumor progression, invasion and metastasis. Further exploration of RCAS1 biological function will facilitate development of novel therapeutic strategies that target RCAS1.

Notable Publications

Author	Pubmed ID	Journal	Application
Takuya Nishinakagawa	36734265	Mol Med Rep	WB,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol 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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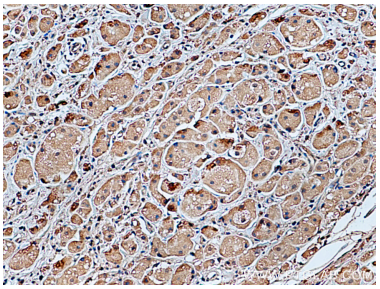
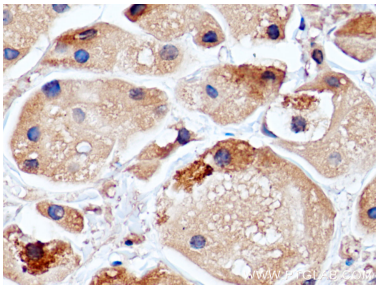
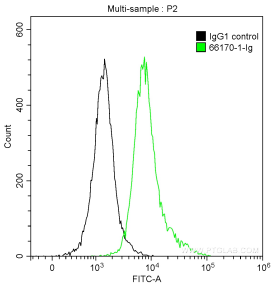
Selected Validation Data



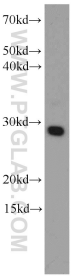
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66170-1-Ig (RCAS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



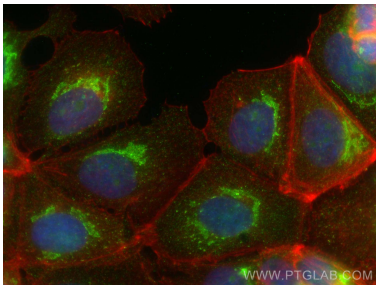
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66170-1-Ig (RCAS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Jurkat cells were intracellularly stained with 0.2 ug Anti-Human RCAS1 (66170-1-Ig, Clone:4H8A12) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 90% MeOH.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 66170-1-Ig (RCAS1 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using RCAS1 antibody (66170-1-Ig, Clone: 4H8A12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).