

Flotillin 2 Polyclonal Antibody | anti-FLOT2 antibody

Anti-Flotillin 2 Antibody

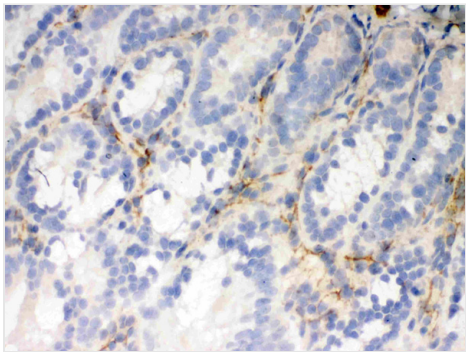
CATALOG # AAA11664	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

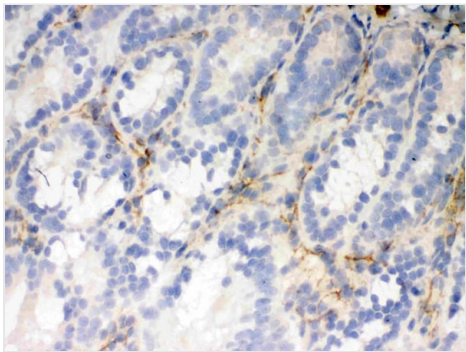
Flotillin 2; Polyclonal Antibody; Anti-Flotillin 2 Antibody; Flotillin-2; ECS-1; ECS1; Epidermal surface antigen 1; Epidermal surface antigen; ESA; ESA1; Flot2; FLOT2_HUMAN; M17S1; Membrane component chromosome 17 surface marker 1; Membrane component chromosome 17 surface marker 1 homolog; Membrane component; chromosome 17; surface marker 1; REG-1; Reggie-1; Reggie-2 antibody; flotillin 2; anti-FLOT2 antibody

PRODUCT SPECIFICATIONS

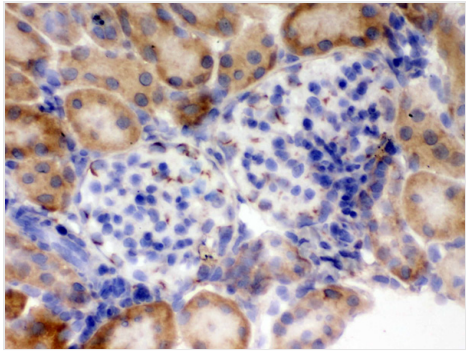
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	428
Applicable Applications for anti-FLOT2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin-embedded section; Concentration: 0.5-1ug/ml; Antigen Retrieval: By Heat Immunohistochemistry (IHC) (Frozen Section); Concentration: 0.5-1ug/ml Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Immunogen	E Coli-derived human Flotillin 2 recombinant protein (Position: K169-K344). Human Flotillin 2 shares 100% amino acid (aa) sequence identity with both mouse and rat Flotillin 2.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



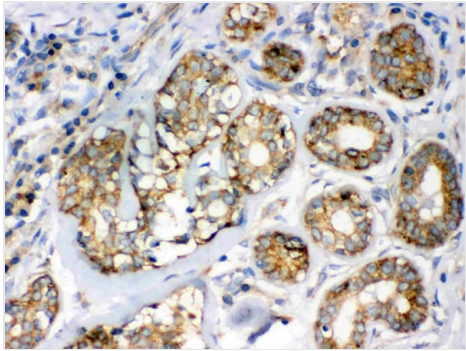
IHC (Immunohistochemistry)
Figure 7. IHC analysis of Flotillin 2 using anti-Flotillin 2 antibody (AAA11664).Flotillin 2 was detected in frozen section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Flotillin 2 Antibody (AAA11664) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



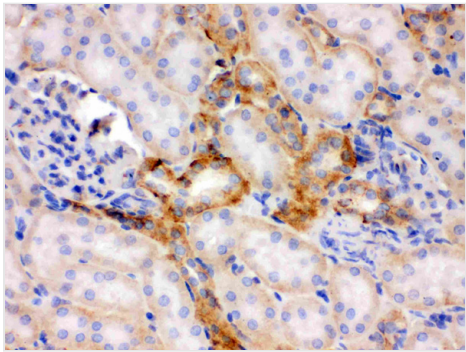
IHC (Immunohistochemistry)
Figure 6. IHC analysis of Flotillin 2 using anti-Flotillin 2 antibody (AAA11664).Flotillin 2 was detected in frozen section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Flotillin 2 Antibody (AAA11664) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



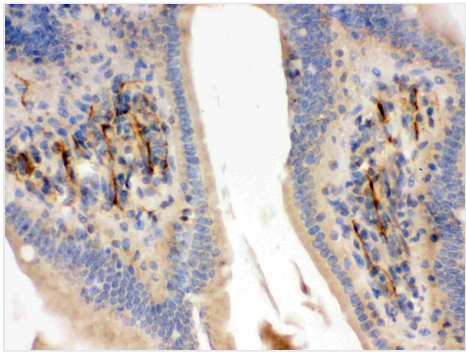
IHC (Immunohistochemistry)
Figure 5. IHC analysis of Flotillin 2 using anti-Flotillin 2 antibody (AAA11664).Flotillin 2 was detected in frozen section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Flotillin 2 Antibody (AAA11664) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Anti- Flotillin 2 Picoband antibody, AAA11664, IHC(P)IHC(P): Human Mammary Cancer Tissue



IHC (Immunohistochemistry)
Anti- Flotillin 2 Picoband antibody, AAA11664, IHC(P)IHC(P): Rat Kidney Tissue



IHC (Immunohistochemistry)
Anti- Flotillin 2 Picoband antibody, AAA11664, IHC(P)IHC(P): Mouse Intestine Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-FLOT2 antibody	Description: Rabbit IgG polyclonal antibody for Flotillin-2(FLOT2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: FLOT2 (Flotillin 2), also known as ESA1 or M17S1, is a protein that in humans is encoded by the FLOT2 gene. Schroeder et al. (1991) isolated a cDNA for an epidermal surface antigen believed to be involved in epidermal cell adhesion. By analysis of a somatic cell hybrid panel and in situ hybridization using the ESA cDNA, the gene was mapped to 17q11-q12 in the region containing the NF1 gene. Bickel et al. (1997) found that mouse Flot2 consistently copurifies with Flot1 and with caveolin-1 in the purification of caveolin-rich membranes. Using a quantitative proteomic analysis of cultured mouse neuronal stem cells, Li et al. (2012) found that palmitoylation and oligomerization of flotillin-2 was abolished in homozygous Dhhc5 mutant neuronal stem cells. The absolute amount of flotillin-2 was not changed in Dhhc5 mutant neurons.
References	1. Bickel, P. E., Scherer, P. E., Schnitzer, J. E., Oh, P., Lisanti, M. P., Lodish, H. F. Flotillin and epidermal surface antigen define a new family of caveolae-associated integral membrane proteins. J. Biol. Chem. 272: 13793-13802, 1997. 2. Li, Y., Martin, B. R., Cravatt, B. F., Hofmann, S. L. DHHC5 protein palmitoylates flotillin-2 and is rapidly degraded on induction of neuronal differentiation in cultured cells. J. Biol. Chem. 282: 523-530, 2012. 3. Schroeder, W. T., Siciliano, M. J., Stewart-Galetka, S. L., Duvic, M. The human gene for an epidermal surface antigen (M17S1) is located at 17q11-12. Genomics 11: 481-482, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94538362
NCBI GeneID	2319
NCBI Accession #	NP_004466.2
NCBI GenBank Nucleotide #	NM_004475.2
UniProt Accession #	Q14254
NCBI Official Full Name	flotillin-2
NCBI Official Synonym Full Names	flotillin 2
NCBI Official Symbol	FLOT2
NCBI Official Synonym Symbols	ESA; ECS1; ESA1; ECS-1; M17S1
NCBI Protein Information	flotillin-2
UniProt Protein Name	Flotillin-2
UniProt Gene Name	FLOT2
UniProt Synonym Gene Names	ESA1; M17S1; ESA
UniProt Entry Name	FLOT2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.