

EpCAM Monoclonal Antibody (323/A3)

Product Details

Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	323/A3
Conjugate	Unconjugated
Immunogen	MCF-7 human breast cancer cells
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A/G
Storage buffer	PBS, pH 7.4, with 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	4° C
RRID	AB_10981962

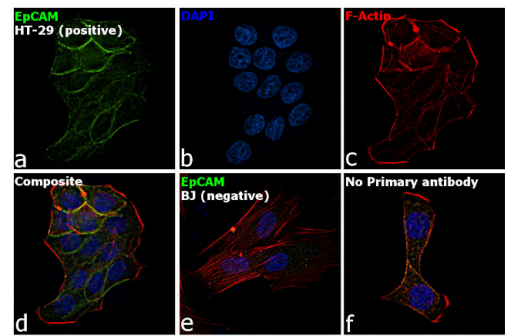
Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	1:10-1:200	6 Publications
Flow Cytometry (Flow)	0.5-1 µg/test	2 Publications
Radioimmune Assays (RIA)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA5-12436 targets Epithelial Specific Antigen in FACS, ICC/IF, IHC (P), and RIA applications and shows reactivity with Human and Mouse samples.

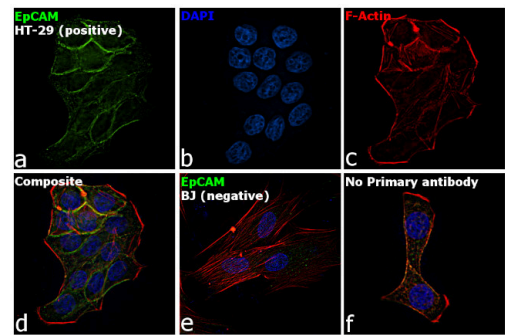
The MA5-12436 immunogen is mCF-7 human breast cancer cells.

Product Images For EpCAM Monoclonal Antibody (323/A3)



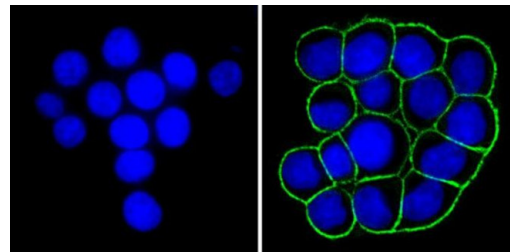
EpCAM Antibody (MA5-12436)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of EpCAM was observed in HT-29 cells in plasma membrane, which is a positive model for EpCAM expression, in comparison to BJ (null for EpCAM expression) using Anti-EpCAM Mouse Monoclonal Antibody (Product # MA5-12436) in immunofluorescence. {RE}



EpCAM Antibody (MA5-12436) in ICC/IF

Immunofluorescence analysis of EpCAM was performed using HT-29 and BJ cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with EpCAM Mouse Monoclonal Antibody (Product # MA5-12436) at 1:100 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green) in HT-29 cells. Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image of HT-29 cells, which is a positive model for EpCAM expression showing a plasma membrane localization. Panel e represents the merged image of BJ cells, that are null for EpCAM protein expression. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



EpCAM Antibody (MA5-12436) in ICC/IF

Immunofluorescent analysis of Epithelial Specific Antigen (green) showing staining in the membrane of HT29 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with an Epithelial Specific Antigen monoclonal antibody (Product # MA5-12436) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 100x.

[View more figures on thermofisher.cn](https://thermofisher.cn)

Western Blot (1)

Journal of immunotherapy (Hagerstown, Md. : 1997)	Year 2008
EpCAM-specific vaccine response by modified antigen and chimeric costimulatory molecule in cynomolgus monkeys.	Species Human
"MA5-12436 was used in western blot to examine a novel costimulatory adjuvant for tumor immuno therapy"	
Authors: Neighbors M,Apt D,Chang JC,Brinkman A,Sipos-Solman I,Ong R,Leong S,Punnonen J	

Immunohistochemistry (4)

Molecular pain	Year 2022
Contribution of TRESK two-pore domain potassium channel to bone cancer-induced spontaneous pain and evoked cutaneous pain in rats.	Species Rat
"MA5-12436 was used in Immunohistochemistry-immunofluorescence to suggest that the differential distribution and decreased expression of TRESK in the periosteum and skin, which is attributed to the lack of IB4+ fibers innervation within the periosteum of the tibia, probably contribute to the behavioral divergence of cancer-induced spontaneous pain and evoked pain in bone cancer rats."	
Authors: Liu JP,Jing HB,Xi K,Zhang ZX,Jin ZR,Cai SQ,Tian Y,Cai J,Xing GG	
Dilution 1:500	

International journal of molecular sciences	Year 2021
KRAS and EGFR Mutations Differentially Alter ABC Drug Transporter Expression in Cisplatin-Resistant Non-Small Cell Lung Cancer.	Species Human
"MA5-12436 was used in Immunohistochemistry to confirm that, in lung AC-s, KRAS and EGFR driver mutations differentially affect both drug transporter expression and the cisplatin-induced WNT signalling microenvironment."	
Authors: Jaromi L,Csongei V,Vesel M,Abdelwahab EMM,Soltani A,Torok Z,Smuk G,Sarosi V,Pongracz JE	
Dilution 1:50	

[View more IHC references on thermofisher.cn](#)

Immunohistochemistry (Paraffin) (2)

Cellular and molecular gastroenterology and hepatology	Year 2022
Human Fetal-Derived Enterospheres Provide Insights on Intestinal Development and a Novel Model to Study Necrotizing Enterocolitis (NEC).	Species Human
"MA5-12436 was used in Immunohistochemistry on paraffin embedded tissues-immunofluorescence to study how to use human fetal organoids to gain insights into necrotising enterocolitis pathogenesis."	
Authors: Senger S,Ingano L,Freire R,Anselmo A,Zhu W,Sadreyev R,Walker WA,Fasano A	
Dilution 1:100	

More applications with references on thermofisher.cn

- ICC/IF (6)
- Flow (2)
- Misc (1)

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