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Product datasheet for UM800031CF

CD23 (FCER2) Mouse Monoclonal Antibody [Clone ID: UMAB101]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB101
Applications:	IF, IHC, WB
Recommended Dilution:	IHC 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 48-321 of human FCER2 (NP_001993) produced in SF9 Cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36.3 kDa
Gene Name:	Fc fragment of IgE receptor II
Database Link:	NP_001993 Entrez Gene 2208 Human P06734

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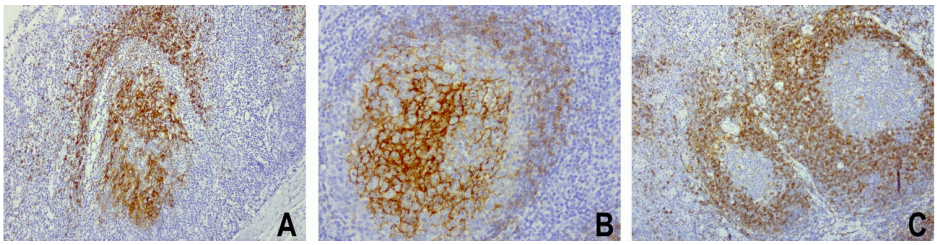
Background: The protein encoded by this gene is a B-cell specific antigen, and a low-affinity receptor for IgE. It has essential roles in B cell growth and differentiation, and the regulation of IgE production. This protein also exists as a soluble secreted form, then functioning as a potent mitogenic growth factor. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul

Synonyms: BLAST-2; CD23; CD23A; CLEC4J; FCE2; IGEBF

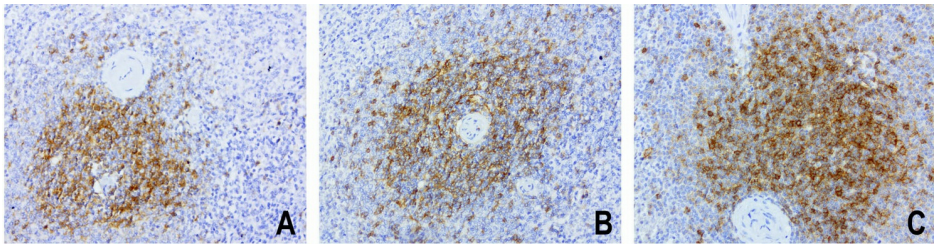
Protein Families: Secreted Protein, Transmembrane

Protein Pathways: Hematopoietic cell lineage

Product images:



Immunohistochemical staining of paraffin-embedded human tonsil using FCER2 (CD23) clone UMAB101, mouse monoclonal antibody at 1:400 dilution of 1mg/mL using Polink2 Broad HRP DAB for detection. [UM800031] requires heat-induced epitope retrieval with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The image is a composite of 3 tonsils which show strong membranous and cytoplasmic staining however each tonsil has a unique expression pattern in the inner and outer germinal center.



Immunohistochemical staining of paraffin-embedded human spleen using FCER2 (CD23) clone UMAB101, mouse monoclonal antibody at 1:100 dilution of 1mg/mL using Polink2 Broad HRP DAB for detection. [UM800031] requires heat-induced epitope retrieval with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The image is a composite of 3 spleens which show strong membranous and cytoplasmic staining white pulp.

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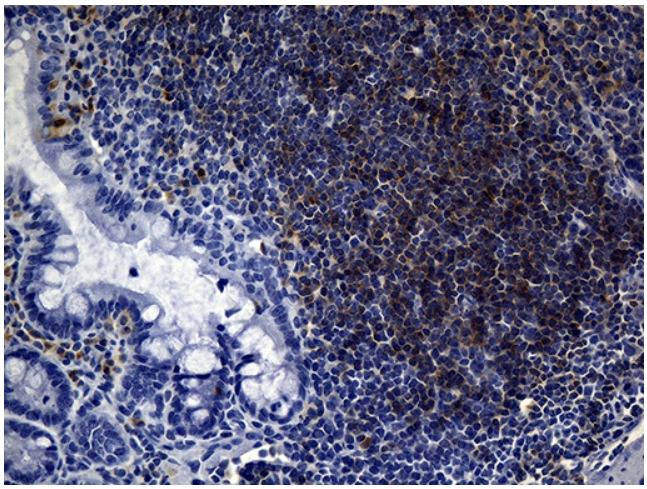
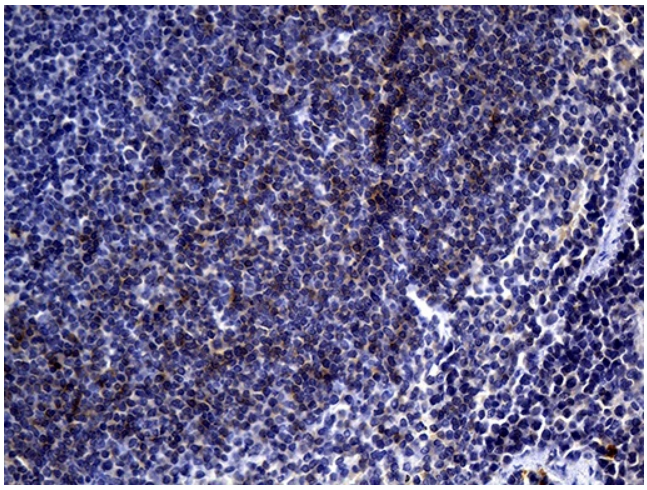
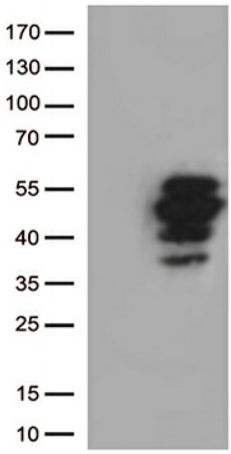


Immunohistochemical staining of paraffin-embedded mouse ascending colon tissue within the normal limits using anti-CD23 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM800031]) (1:500)



Immunohistochemical staining of paraffin-embedded mouse spleen tissue within the normal limits using anti-FCER2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM800031]) (1:500)



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FCER2 ([RC204335], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FCER2 (1:2000).

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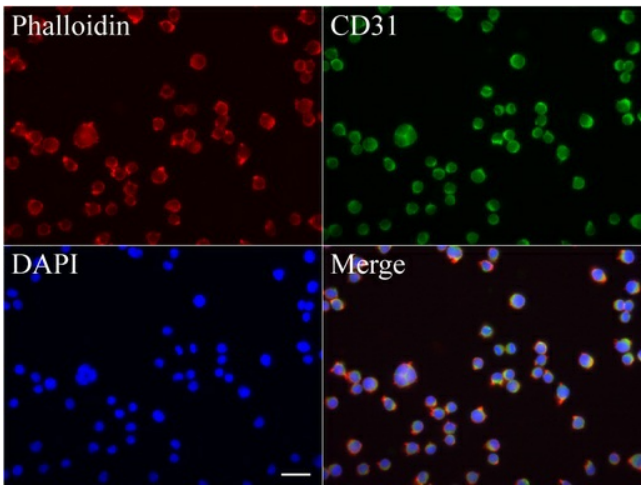

Immunofluorescent staining of Jurkat cells using anti-CD23 mouse monoclonal antibody ([UM800031], green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.

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