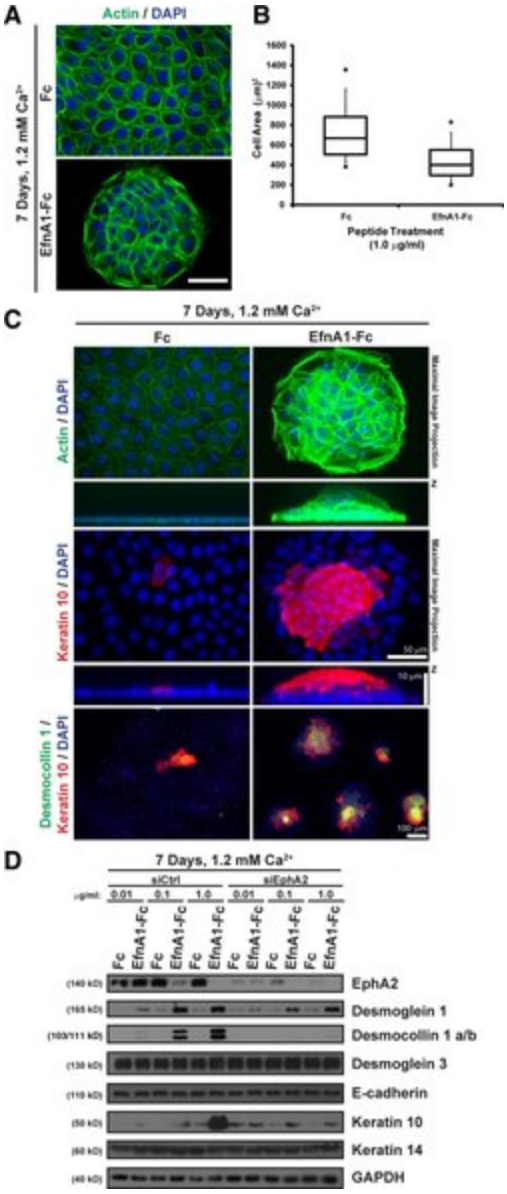
Desmoglein 1 Monoclonal Antibody (27B2)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Bovine, Human, Horse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	27B2
Conjugate	Unconjugated
Immunogen	Human desmoglein-1 intracellular domain.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533088

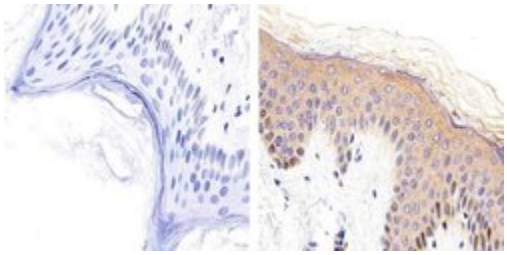
Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	20-50 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	-	1 Publication
Immunoprecipitation (IP)	5-10 µg	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

Advanced Verification Data



Desmoglein 1 Antibody (32-6000)
Figure 3. Ligand targeting of EphA2 triggers keratinocyte colony compaction, stratification and differentiation. (A) Phalloidin (F-actin; in green) and DAPI (nuclei; in blue) staining of sparse keratinocytes that were treated with 1.0 mug/ml Fc or ephrin-A1-Fc for 7 d in 1.2 mM calcium (scale bar, 50 mum). (B) Cell compaction was analyzed by using ImageJ software to measure the surface area of individual cells and presented in a box-and-whisker plot. (C) Maximal image projections (top panels) from peptide-treated colonies that were stained with phalloidin to image F-actin (in green), an antibody against keratin 10 (in red) or DAPI to visualize nuclei (in blue). Apotome-processed images were acquired from stratified keratinocyte colonies at 0.25 mum increments (scale bar, 50 mum). Images below depict cross-sections through the z-x axis that were magnified in the z plane to better resolve keratinocyte piles (scale bar, 10 mum). Colonies that had formed in the presence of Fc or ephrin-A1-Fc peptide in 1.2 mM calcium were also fixed and immunostained for desmocollin 1 a/b (in green) or keratin 10 (in red) to detect stratified keratinocytes (scale bar, 100 mum). (D) siCtrl or siEphA2 keratinocytes were seeded under sparse conditions and treated with 0.01, 0.1, or 1.0 mug/ml Fc or ephrin-A1-Fc peptide for 7 days in 1.2 mM calcium. Western blot analysis of lysates prepared from these cultures were probed for EphA2, desmoglein 1, desmocollin 1 a/b, desmoglein 3, E-cadherin, keratin 1 Cell treatment validation info.

Product Images For Desmoglein 1 Monoclonal Antibody (27B2)



Desmoglein 1 Antibody (32-6000) in IHC (P)
Immunohistochemistry analysis of Desmoglein-1 showing staining in the cytoplasm and membrane of paraffin-embedded human skin tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Desmoglein-1 monoclonal antibody (Product # 32-6000) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on thermofisher.com

19 References

Western Blot (4)

Molecular and cellular biology

Role of Fibroblast Growth Factor Receptor 2b in the Cross Talk between Autophagy and Differentiation: Involvement of Jun N-Terminal Protein Kinase Signaling.

"32-6000 was used in Western Blotting to point to JNK1 as a signaling hub that regulates the interplay between FGFR2b-induced autophagy and differentiation."

Authors: Nanni M,Ranieri D,Rosato B,Torrisi MR,Belleudi F

Species
Human

Dilution
Not Cited

Year
2018

Experimental dermatology

Hailey-Hailey disease and tight junctions: Claudins 1 and 4 are regulated by ATP2C1 gene encoding Ca(2+) /Mn(2+) ATPase SPCA1 in cultured keratinocytes.

Authors: Raiko L,Siljamäki E,Mahoney MG,Putaala H,Suominen E,Peltonen J,Peltonen S

Species
Human

Dilution
Not Cited

Year
2012

View more WB references on thermofisher.com

Immunohistochemistry (3)

Cells

Fisetin, a 3,7,3',4'-Tetrahydroxyflavone Inhibits the PI3K/Akt/mTOR and MAPK Pathways and Ameliorates Psoriasis Pathology in 2D and 3D Organotypic Human Inflammatory Skin Models.

"32-6000 was used in Immunohistochemistry to demonstrate the potential of fisetin as an effective and inexpensive agent for the treatment of psoriasis and other related inflammatory skin disorders."

Authors: Chamcheu JC,Esnault S,Adhami VM,Noll AL,Banang-Mbeumi S,Roy T,Singh SS,Huang S,Kousoulas KG, Mukhtar H

Species
Human

Dilution
1:75

Year
2019

Journal of dental research

Early dental epithelial transcription factors distinguish ameloblastoma from keratocystic odontogenic tumor.

"32-6000 was used in immunohistochemistry to evaluate early dental epithelial transcription factors as a diagnostic marker for ameloblastoma and keratocystic odontogenic tumor"

Authors: Heikinheimo K,Kurppa KJ,Laiho A,Peltonen S,Berdal A,Bouattour A,Ruhin B,Catón J,Thesleff I,Leivo I,Morgan PR

Species
Human

Dilution
Not Cited

Year
2015

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IHC (P) (1) IHC (F) (1) ICC/IF (4) Flow (1) IP (1) Misc (4)