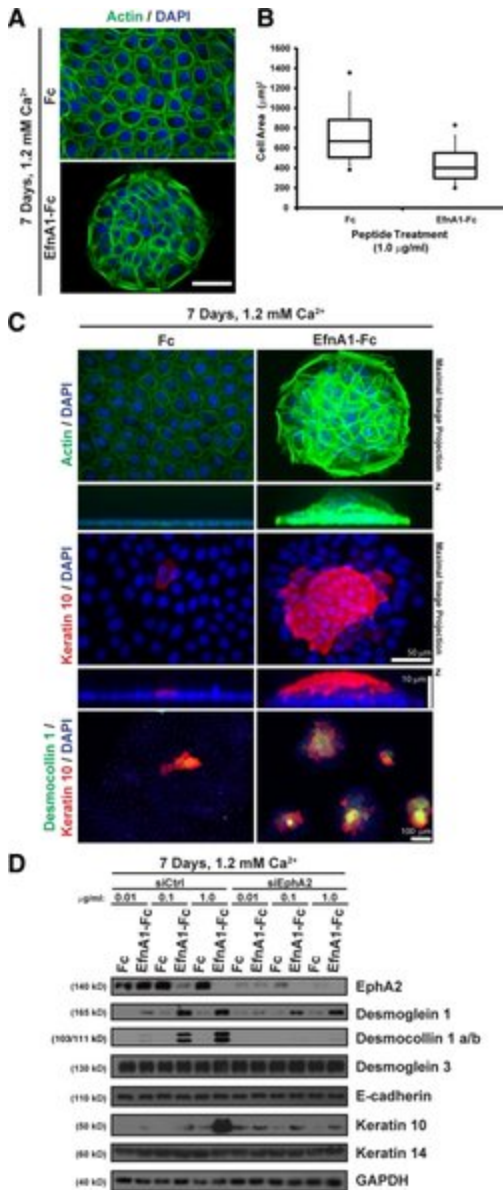


# Desmoglein 1 Monoclonal Antibody (27B2)

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



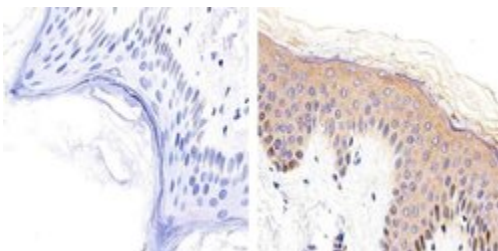
**Desmoglein 1 Antibody (32-6000)**

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 µg/ml Fc or ephrin-A1-Fc for 7 d in 1.2 mM calcium (scale bar, 50 µm). (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 µm increments (scale bar, 50 µm). 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 µm). 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 µm). (D) siCtrl or siEphA2 keratinocytes were seeded under sparse conditions and treated with 0.01, 0.1, or 1.0 µg/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.



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,Putala 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

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

More applications with references on [thermofisher.com](http://thermofisher.com)

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

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