

# PAR2 Monoclonal Antibody (SAM11), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	SAM11
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2572959

Applications	Tested Dilution	Publications
Western Blot (WB)	1:250	-
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	10 µg/mL	-
ELISA (ELISA)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

## Product Specific Information

**Description:** The monoclonal antibody SAM11 recognizes human PAR2 (Protease activated receptor 2). PAR2 is a member of the PAR family which is a sub-family of the G protein coupled receptors (GPCR). Unlike most of the GPCR family members, PARs are not activated through ligand binding, but through proteolytic cleavage of the amino terminus. PAR2 activation is induced by trypsin, mast cell tryptase, neutrophil proteinase 3, tissue factor-factor VIIa-factor Xa, human kallikrein-related peptidases and membrane-tethered serine proteinase-1/matriptase-1. Unlike other PARs, PAR2 is not activated by thrombin. PAR2 is widely expressed in many tissues, including skin, liver, kidney, small intestine, and colon. PAR2 plays a key role in numerous inflammatory diseases and cancers. The SAM11 antibody has been reported to inhibit the ability of serine proteinases to activate PAR2.

**Applications Reported:** This SAM11 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, ELISA, functional assays, and immunocytochemistry.

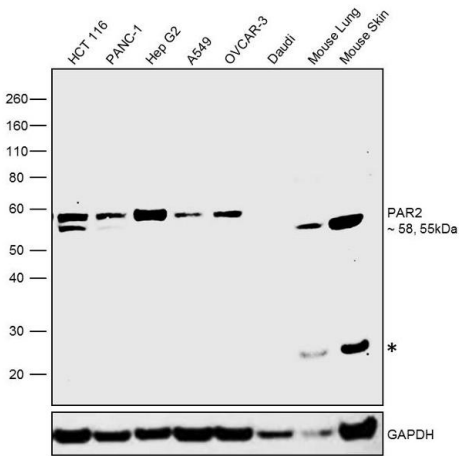
**Applications Tested:** This SAM11 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low or high pH antigen retrieval. This SAM11 antibody has also been tested by immunocytochemistry of both methanol and formaldehyde-fixed and permeabilized cells and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

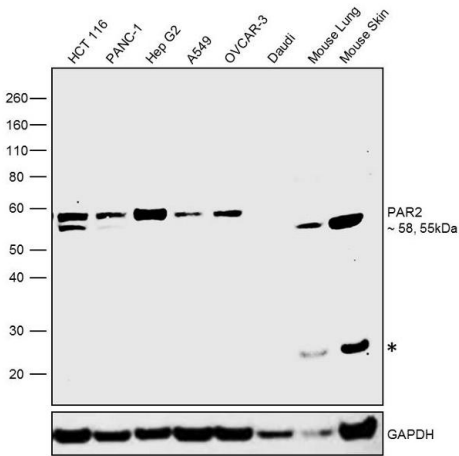
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For PAR2 Monoclonal Antibody (SAM11), eBioscience™



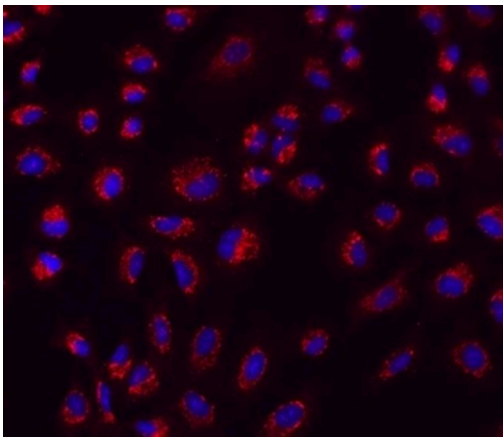
PAR2 Antibody (14-9699-82) in WB

Western blot was performed using Anti-PAR2 Monoclonal Antibody (Product # 14-9699-80) and 58, 55 kDa bands corresponding to PAR2 were observed across the cell lines and tissues tested along with an uncharacterized band at ~30 kDa. Membrane enriched extracts (40 µg lysate) of HCT 116 (Lane 1), PANC-1 (Lane 2), Hep G2 (Lane 3), A549 (Lane 4), OVCAR-3 (Lane 5), Daudi (Lane 6), tissue extracts of Mouse Lung (Lane 7) and Mouse Skin (Lane 8) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:250 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP conjugate (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



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PAR2 Antibody (14-9699-82) in ICC/IF

Immunocytochemistry of fixed and permeabilized A549 cells using 10 µg/mL of Anti-Human PAR2 Purified followed by F (ab')<sub>2</sub> Anti-Mouse IgG eFluor® 570. Nuclei are stained with DAPI.

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