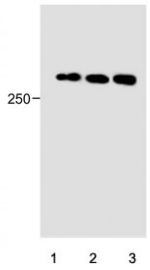
PIEZO2 Antibody / FAM38B (F55114)

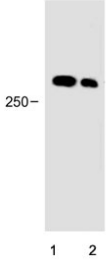
Catalog No.	Formulation	Size
F55114-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55114-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9H5I5
Applications	Western blot: 1:500-1:1000
Limitations	This PIEZO2 antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) HepG2 and 3) A549 cell lysate with PIEZO2 antibody. Expected molecular weight ~318 kDa.



Western blot testing of human 1) HepG2 and 2) A549 cell lysate with PIEZO2 antibody. Expected molecular weight ~318 kDa.

Description

PIEZO2 (Piezo-type mechanosensitive ion channel component 2), also called Protein FAM38B, is a transmembrane protein that spans the cell membrane and acts as a sensor for mechanical stimuli. When external forces, such as touch or pressure, are applied to the cell membrane, PIEZO2 responds by opening up and allowing ions to flow into the cell. This influx of ions triggers a signal that is transmitted to the brain, allowing us to perceive and respond to the touch sensation. It also plays a critical role in a variety of other sensory functions, including proprioception (the ability to sense the position of our body in space) and hearing. Recent studies have uncovered even more functions of PIEZO2 beyond sensory perception. It has been found to be involved in regulating lung development, bone formation, and even cell migration.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PIEZO2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 2575-2604 from the human protein was used as the immunogen for the PIEZO2 antibody.

Storage

Aliquot the PIEZO2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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