

Anti-Wnt5a Antibody (2Q540)

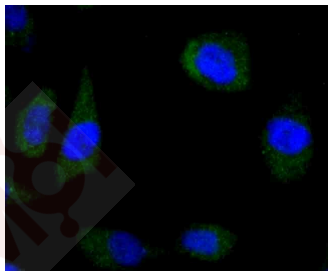
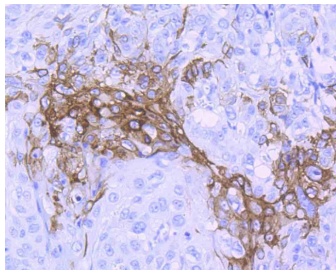
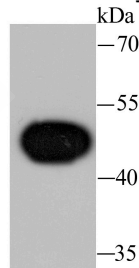
Product Details

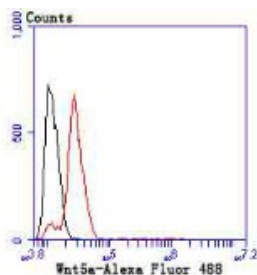
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 42 kDa.
Clone:	2Q540
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Wnt5a on Hela cell lysate using anti-Wnt5a antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Wnt5a antibody. Counter stained with hematoxylin.
3. ICC staining Wnt5a in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. Flow cytometric analysis of SH-SY5Y cells with Wnt5a antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,ICC,IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P41221

Synonyms: WNT5A;Protein Wnt-5a

Research Background

The Wnt genes belong to a family of protooncogenes with at least 13 known members that are expressed in species ranging from Drosophila to man. The name Wnt denotes the relationship of this family to the Drosophila segment polarity gene "wingless" and to its vertebrate ortholog, Int1, a mouse protooncogene. Transcription of Wnt family genes appears to be developmentally regulated in a precise temporal and spatial manner. The Wnt genes encode cysteine-rich putative glycoproteins, which have features typical of secreted growth factors. Northern blot analysis detects expression of Wnt-5a in brain, lung, and heart. At least five distinct Wnt-5a transcripts are observed, which are due to transcript variability 5-prime to the initiation methionine. In situ hybridization detects a complex spatial and temporal pattern of Wnt-5a in the mouse, including expression in the developing central nervous system, limbs, facial processes, and the posterior region of the fetus. Human frizzled-5 is the receptor for the Wnt-5a ligand. It is suggested that Wnt-5a augments primitive hematopoietic development in vivo and represents an in vivo regulator of hematopoietic stem cell function in the human.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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