

Product Name: Olfactory receptor 1B1 Rabbit Polyclonal Antibody
Catalog #: APRab15166

Summary

Production Name	Olfactory receptor 1B1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB,
Reactivity	Human, Rat, Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	OR1B1
Alternative Names	OR1B1; Olfactory receptor 1B1; Olfactory receptor 9-B; OR9-B; Olfactory receptor OR9-26
Gene ID	347169.0
SwissProt ID	Q8NGR6. The antiserum was produced against synthesized peptide derived from human OR1B1. AA range: 161-210

Application

Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
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Molecular Weight 33kD

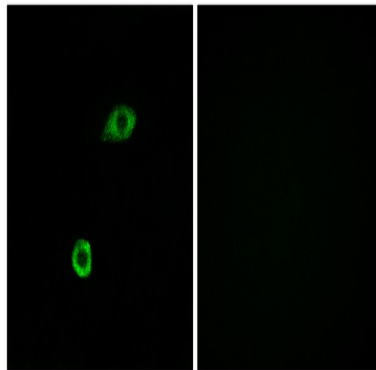
Background

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a functionless odorant receptor. Polymorphism: A stop codon at position Arg-192 in the gene coding for this protein is responsible for functional diversity thus producing a pseudogene. The stop codon is more frequent in non-Africans than in African-Americans. Similarity: Belongs to the G-protein coupled receptor 1 family.

Research Area

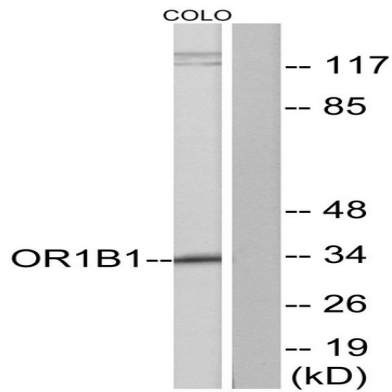
Olfactory transduction;

Image Data

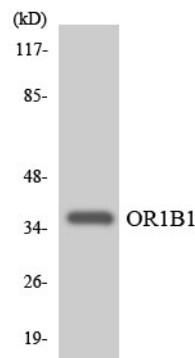


Immunofluorescence analysis of A549 cells, using OR1B1 Antibody. The picture on the right is blocked with the synthesized peptide.

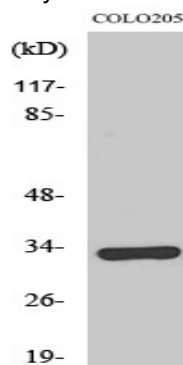
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Western blot analysis of lysates from COLO cells, using OR1B1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using OR1B1 antibody.



Western Blot analysis of various cells using Olfactory receptor 1B1 Polyclonal Antibody

Note

For research use only.