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Olfactory receptor 1A1 Polyclonal Antibody

Catalog # AP71463

Product Information

Application	WB, E
Primary Accession	Q9P1Q5
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34565

Additional Information

Gene ID	8383
Other Names	OR1A1; Olfactory receptor 1A1; Olfactory receptor 17-7; OR17-7; Olfactory receptor OR17-11
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

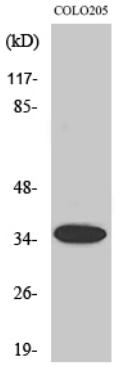
Protein Information

Name	OR1A1 {ECO:0000303|PubMed:29632183, ECO:0000312|HGNC:HGNC:8179}
Function	Olfactory receptor activated by various compounds, such as 3-methyl-2,4-nonanedione, dihydrojasmone, citronellol and carvone (PubMed:17601748, PubMed:27642093, PubMed:27916747, PubMed:28656349, PubMed:35686936). Ligand-binding causes a conformation change that triggers signaling via G(s)-class of G alpha protein GNAL/G(olf), mediating activation of adenylate cyclase activity and increased production of cAMP, initiating a neuronal response that triggers the perception of a smell (PubMed:27916747). Acts as a selective receptor for 3-methyl-2,4-nonanedione, a key food odorant associated with a prune note in oxidized wine and is an aroma determinant in tea and apricots (PubMed:27916747). Also responds specifically to certain nitromusks, notably musk ambrette, and to a lesser extent, musk tibetene and musk xylene (PubMed:29632183).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the olfactory epithelium.

Background

Odorant receptor.

Images



Western Blot analysis of various cells using Olfactory receptor 1A1 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.