OR10H3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR10H3, Polyclonal Antibody
Full Product Name	OR10H3 Polyclonal Antibody
Product Gene Name	anti-OR10H3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
OMIM	600664
3D Structure	ModBase 3D Structure for O60404
Immunogen	A synthetic peptide of human OR10H3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-OR10H3 antibody	Western Blot (WB)
Application Notes for anti-OR10H3 antibody	WB: 1:500-1:2000
Related Product Information for anti-OR10H3 antibody	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.
Other Notes	Small volumes of anti-OR10H3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OR10H3 purchase	MBS8571762 is an antibody targeting OR10H3. Also known as OR10H3 Polyclonal Antibody. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR10H3. It may not necessarily be applicable to this product.

NCBI GI #	62241001
NCBI GeneID	1147
NCBI Accession #	NP_001269.3
UniProt Primary Accession #	O60404

UniProt Related Accession #	O15111
GenBank Nucleotide #	NP_001269.3
NCBI Official Full Name	inhibitor of nuclear factor kappa-B kinase subunit alpha isoform 1
NCBI Official Synonym Full Names	component of inhibitor of nuclear factor kappa B kinase complex
NCBI Official Symbol	CHUK
NCBI Official Synonym Symbols	IKK1; IKKA; IKBKA; TCF16; NFKBIKA; IKK-alpha
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit alpha
UniProt Synonym Protein Names	Conserved helix-loop-helix ubiquitous kinase; I-kappa-B kinase 1; IKK1; Nuclear factor NF-kappa-B inhibitor kinase alpha; NFKBIKA; Transcription factor 16
Protein Family	Olfactory receptor
UniProt Gene Name	CHUK
UniProt Synonym Gene Names	IKKA; TCF16; I-kappa-B kinase alpha; IKK-A; IKK-alpha; IkBKA; IkappaB kinase; IKK1; NFKBIKA; TCF-16
UniProt Entry Name	IKKA_HUMAN
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit alpha
NCBI Summary for OR10H3	This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008]

UniProt Comments for OR10H3	IKKA: a kinase of the IKK family. Phosphorylates inhibitors of NF-kappa-B, leading to their dissociation from NF-kappa-B and ultimately to their degradation. Phosphorylated and activated downstream of growth factor receptors, IL1R, and TNFR by NAK, IRAK and NIK, respectively. Preferentially found as a heterodimer with IKK-beta but also as an homodimer. Directly interacts with IKK-gamma/NEMO and TRPC4AP. Heterodimers form the active complex. The tripartite complex can also bind to MAP3K14/NIK, MEKK1, IKAP and IKB-alpha-p65-p50 complex. Inhibitors are under development to treat arthritis, inflammation, and apoptotic aspects of cancer. Aspirin (sodium salicylate) selectively binds IKK and reduces inflammation. Misexpression and inhibitors show involvement in insulin sensitization in obese rodents. Mutations in IKK-gamma are found in several immune deficiencies: hyper IgM syndrome, incontinentia pigmenti [embryonic lethal in males, defects in skin, hair, teeth in females] and hypohidrotic ectodermal dysplasia; recurrent infections and defects in teeth, hair, and sweat glands]. Inhibitors: CHS 828, NBD peptide, BMS-345541. Protein type: Protein kinase, Other; EC 2.7.11.10; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Other group; IKK family Chromosomal Location of Human Ortholog: 10q24-q25 Cellular Component: nucleoplasm; internal side of plasma membrane; intracellular membrane-bound organelle; cytoplasm; IkappaB kinase complex; cytosol Molecular Function: protein binding; protein homodimerization activity; IkappaB kinase activity; protein heterodimerization activity; ATP binding; protein kinase activity Biological Process: skeletal muscle contraction; lactation; I-kappaB kinase/NF-kappaB cascade; nerve growth factor receptor signaling pathway; response to toxin; response to lipopolysaccharide; toll-like receptor 3 signaling pathway; osteoclast differentiation; T cell receptor signaling pathway; protein amino acid phosphorylation; Rho protein signal transduction; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 5 signaling pathway; positive regulation of interferon type I production; morphogenesis of an epithelial sheet; inflammatory response; toll-like receptor 4 signaling pathway; epidermal growth factor receptor signaling pathway; response to drug; anatomical structure morphogenesis; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; positive regulation of I-kappaB kinase/NF-kappaB cascade; response to virus; MyD88-independent toll-like receptor signaling pathway; mammary gland epithelial cell proliferation; response to amino acid stimulus; odontogenesis of dentine-containing teeth; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; response to hydroperoxide; toll-like receptor signaling pathway; innate immune response; striated muscle cell differentiation; immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; I-kappaB phosphorylation Disease: Cocoon Syndrome
Research Articles on OR10H3	**1.** Data suggest a linkage between notch receptor 1 (NOTCH1), IKK-alpha protein (IKKalpha), and NF-kappa B (NF-kappaB) pathway activation in maintaining the CD133(+) stem cutaneous squamous cell carcinoma (cSCC) phenotypes.
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