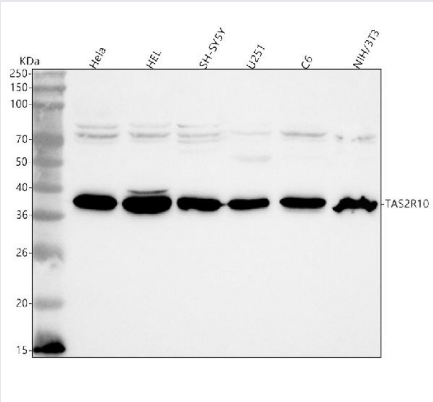
TAS2R10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

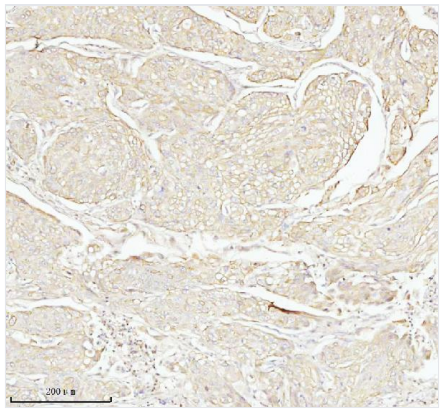
Product Name	TAS2R10, Polyclonal Antibody
Full Product Name	Anti-TAS2R10 Antibody Picoband
Product Gene Name	anti-TAS2R10 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	35,365 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (10977945..10978868, complement). Location: 12p13
OMIM	604791
3D Structure	ModBase 3D Structure for Q9NYW0
Immunogen	E coli-derived human TAS2R10 recombinant protein (Position: E16-T307).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-TAS2R10 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TAS2R10 antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TAS2R10 antibody	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-TAS2R10 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-TAS2R10 antibody	1. Adler, E., Hoon, M. A., Mueller, K. L., Chandrashekar, J., Ryba, N. J. P., Zuker, C. S. A novel family of mammalian taste receptors. Cell 100: 693-702, 2000. 2. Chandrashekar, J., Hoon, M. A., Ryba, N. J. P., Zuker, C. S. The receptors and cells for mammalian taste. Nature 444: 288-294, 2006. 3. Deshpande, D. A., Wang, W. C. H., McIlmoyle, E. L., Robinett, K. S., Schillinger, R. M., An, S. S., Sham, J. S. K., Liggett, S. B. Bitter taste receptors on airway smooth muscle bronchodilate by localized calcium signaling and reverse obstruction. Nature Med. 16: 1299-1304, 2010.
Other Notes	Small volumes of anti-TAS2R10 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 TAS2R10 purchase	MBS1759170 is an antibody targeting TAS2R10. Also known as Anti-TAS2R10 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



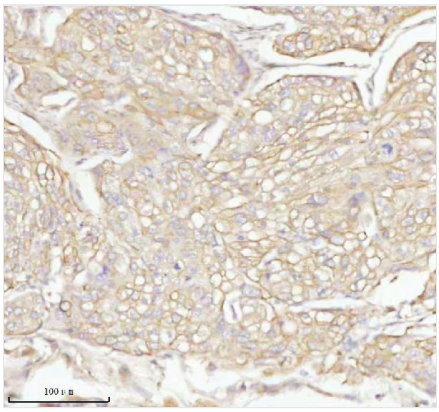
Western Blot (WB) of anti-TAS2R10 antibody

Figure 1. Western blot analysis of TAS2R10 using anti-TAS2R10 antibody (MBS1759170).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HEL whole cell lysates,Lane 3: human SH-SY5Y whole cell lysates,Lane 4: human U251 whole cell lysates,Lane 5: rat C6 whole cell lysates,Lane 6: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TAS2R10 antigen affinity purified polyclonal antibody (#MBS1759170) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for TAS2R10 at approximately 38 kDa. The expected band size for TAS2R10 is at 35 kDa.



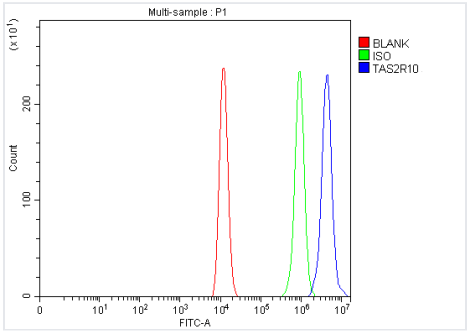
Immunohistochemistry (IHC) of anti-TAS2R10 antibody

Figure 2. IHC analysis of TAS2R10 using anti-TAS2R10 antibody (MBS1759170).TAS2R10 was detected in a paraffin-embedded section of human cervix squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-TAS2R10 Antibody (MBS1759170) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



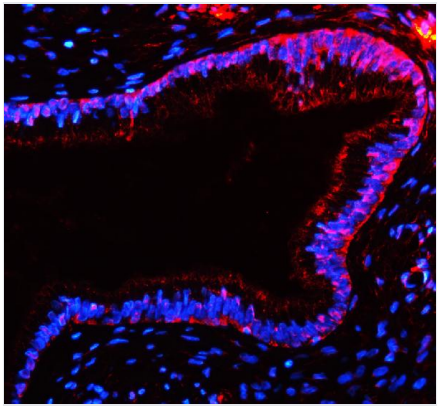
Immunohistochemistry (IHC) of anti-TAS2R10 antibody

Figure 3. IHC analysis of TAS2R10 using anti-TAS2R10 antibody (MBS1759170).TAS2R10 was detected in a paraffin-embedded section of human cervix squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-TAS2R10 Antibody (MBS1759170) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Flow Cytometry (FC/FACS) of anti-TAS2R10 antibody

Figure 4. Flow Cytometry analysis of HEL cells using anti-TAS2R10 antibody (MBS1759170).Overlay histogram showing HEL cells stained with MBS1759170 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-TAS2R10 Antibody (MBS1759170, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Immunofluorescence (IF) of anti-TAS2R10 antibody
Figure 5. IF analysis of TAS2R10 using anti-TAS2R10 antibody (MBS1759170).TAS2R10 was detected in a paraffin-embedded section of human cervix cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-TAS2R10 Antibody (MBS1759170) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAS2R10. It may not necessarily be applicable to this product.

NCBI GI #	12965180
NCBI GeneID	50839
NCBI Accession #	NP_076410.1
UniProt Primary Accession #	Q9NYW0
UniProt Secondary Accession #	Q3MIM9; Q6NTD9
UniProt Related Accession #	Q9NYW0
GenBank Nucleotide #	NM_023921.1
NCBI Official Full Name	taste receptor type 2 member 10
NCBI Official Synonym Full Names	taste receptor, type 2, member 10
NCBI Official Symbol	TAS2R10
NCBI Official Synonym Symbols	TRB2; T2R10
UniProt Protein Name	Taste receptor type 2 member 10
UniProt Synonym Protein Names	Taste receptor family B member 2
Protein Family	Taste receptor
UniProt Gene Name	TAS2R10
UniProt Synonym Gene Names	T2R10; TRB2
UniProt Entry Name	T2R10_HUMAN
NCBI Protein Information	taste receptor type 2 member 10; taste receptor family B member 2; taste receptor, family B, member 2

NCBI Summary for TAS2R10	This gene product belongs to the family of candidate taste receptors that are members of the G-protein-coupled receptor superfamily. These proteins are specifically expressed in the taste receptor cells of the tongue and palate epithelia. They are organized in the genome in clusters and are genetically linked to loci that influence bitter perception in mice and humans. In functional expression studies, they respond to bitter tastants. This gene maps to the taste receptor gene cluster on chromosome 12p13. [provided by RefSeq, Jul 2008]
UniProt Comments for TAS2R10	TAS2R10: Gustducin-coupled strychnine receptor implicated in the perception of bitter compounds in the oral cavity and the gastrointestinal tract. Signals through PLCB2 and the calcium- regulated cation channel TRPM5. Belongs to the G-protein coupled receptor T2R family. Protein type: Receptor, GPCR; GPCR, T2R family; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13 Cellular Component: plasma membrane; integral to membrane Molecular Function: bitter taste receptor activity; taste receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception of bitter taste
Research Articles on TAS2R10	**1.** The human bitter taste receptor TAS2R10 is tailored to accommodate numerous diverse ligands
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