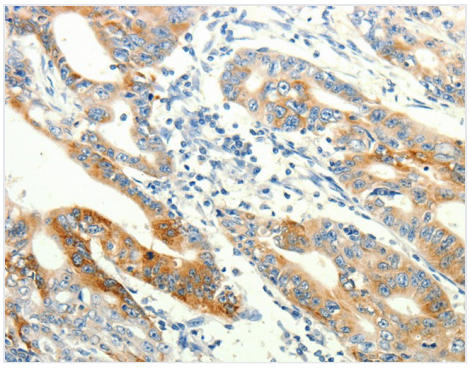
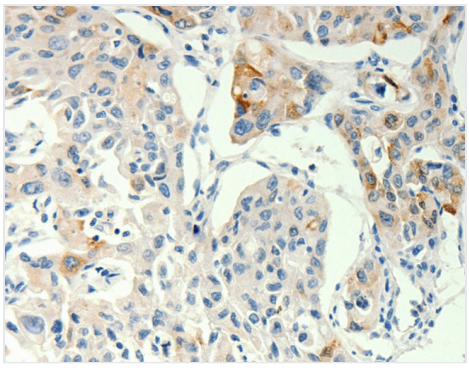
# TRPA1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | TRPA1, Polyclonal Antibody |
| **Full Product Name** | TRPA1 Polyclonal Antibody |
| **Product Gene Name** | anti-TRPA1 antibody |
| **Product Synonym Names** | FEPS; ANKTM1 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Antigen affinity purification |
| **Concentration** | 2mg/mL (lot specific) |
| **Preparation and Storage** | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |
| **Molecular Weight** | 127,501 Da |
| **OMIM** | 604775 |
| **Immunogen** | Synthetic peptide of human TRPA1 |
| **Buffer** | PBS with 0.05% sodium azide, 50% glycerol, pH7.3 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-TRPA1 antibody** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-TRPA1 antibody** | IHC: 1:25-1:100 |
| **Related Product Information for anti-TRPA1 antibody** | The structure of the protein encoded by this gene is highly related to both the protein ankyrin and transmembrane proteins. The specific function of this protein has not yet been determined; however, studies indicate the function may involve a role in signal transduction and growth control. |
| **Other Notes** | Small volumes of anti-TRPA1 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 TRPA1 purchase** | MBS2527049 is an antibody targeting TRPA1. Also known as TRPA1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-TRPA1 antibody**
Immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using TRPA1 Polyclonal Antibody at dilution 1:60



**Immunohistochemistry (IHC) of anti-TRPA1 antibody**
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TRPA1 Polyclonal Antibody at dilution 1:60

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPA1. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 116534990 |
| **NCBI GeneID** | 8989 |
| **NCBI Accession #** | NP_015628.2 |
| **UniProt Secondary Accession #** | A6NIN6 |
| **UniProt Related Accession #** | O75762 |
| **GenBank Nucleotide #** | NM_007332.2 |
| **NCBI Official Full Name** | transient receptor potential cation channel subfamily A member 1 |
| **NCBI Official Synonym Full Names** | transient receptor potential cation channel, subfamily A, member 1 |
| **NCBI Official Symbol** | TRPA1 |
| **NCBI Official Synonym Symbols** | FEPS; ANKTM1 |
| **UniProt Protein Name** | Transient receptor potential cation channel subfamily A member 1 |
| **UniProt Synonym Protein Names** | Ankyrin-like with transmembrane domains protein 1; Transformation-sensitive protein p120 |
| **Protein Family** | Transient receptor potential cation channel subfamily |
| **UniProt Gene Name** | TRPA1 |
| **UniProt Synonym Gene Names** | ANKTM1 |
| **UniProt Entry Name** | TRPA1_HUMAN |
| **NCBI Protein Information** | transient receptor potential cation channel subfamily A member 1; ankyrin-like with transmembrane domains 1; transformation-sensitive protein p120 |

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|---|---|
| **UniProt Comments for TRPA1** | TRPA1: Receptor-activated non-selective cation channel involved in detection of pain and possibly also in cold perception and inner ear function. Has a central role in the pain response to endogenous inflammatory mediators and to a diverse array of volatile irritants, such as mustard oil, garlic and acrolein, an irritant from tears gas and vehicule exhaust fumes. Acts also as a ionotropic cannabinoid receptor by being activated by delta(9)-tetrahydrocannabinol (THC), the psychoactive component of marijuana. Not involved in menthol sensation. May be a component for the mechanosensitive transduction channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably operated by a phosphatidylinositol second messenger system. Belongs to the transient receptor (TC 1.A.4) family.<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass<br><br>Chromosomal Location of Human Ortholog: 8q13<br><br>Cellular Component: stereocilium bundle; integral to plasma membrane; plasma membrane<br><br>Molecular Function: channel activity; calcium channel activity<br><br>Biological Process: response to drug; detection of mechanical stimulus involved in sensory perception of pain; detection of chemical stimulus involved in sensory perception of pain; response to hydrogen peroxide; response to pain; ion transport; thermoception; response to cold; transmembrane transport<br><br>Disease: Episodic Pain Syndrome, Familial, 1 |
| **Research Articles on TRPA1** | **1.** analysis of the molecular basis determining inhibition and activation of nociceptive receptor TRPA1 protein |
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