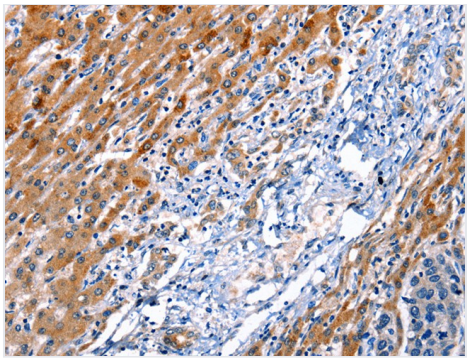
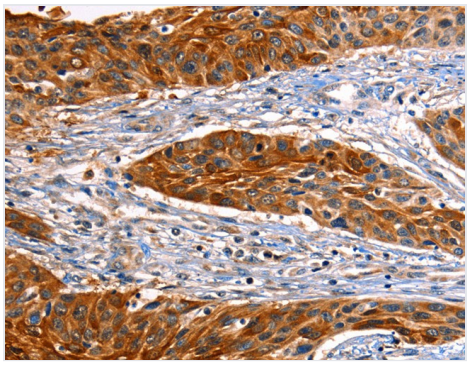
# ID4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | ID4, Polyclonal Antibody |
| **Full Product Name** | ID4 Polyclonal Antibody |
| **Product Gene Name** | anti-ID4 antibody |
| **Product Synonym Names** | IDB4, bHLHb27 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Antigen affinity purification |
| **Concentration** | 0.8mg/mL (lot specific) |
| **Preparation and Storage** | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |
| **Immunogen** | Synthetic peptide of human ID4 |
| **Buffer** | PBS with 0.05% sodium azide, 50% glycerol, pH7.3 |
| **Product Categories/Family for anti-ID4 antibody** | Stem cells; Epigenetics |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-ID4 antibody** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-ID4 antibody** | IHC: 1:20-1:100 |
| **Related Product Information for anti-ID4 antibody** | DNA-binding protein inhibitor ID-4 is a protein that in humans is encoded by the ID4 gene. Transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative (antimorph) HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins. |
| **Other Notes** | Small volumes of anti-ID4 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 ID4 purchase** | MBS2521341 is an antibody targeting ID4. Also known as ID4 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-ID4 antibody**
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ID4 Polyclonal Antibody at dilution 1:20



**Immunohistochemistry (IHC) of anti-ID4 antibody**
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using ID4 Polyclonal Antibody at dilution 1:20

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ID4. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 3004880 |
| **NCBI Accession #** | AAC39674.1 |
| **NCBI Official Full Name** | ID4, partial |
| **Protein Family** | DNA-binding protein inhibitor |
| **NCBI Summary for ID4** | This gene encodes a member of the inhibitor of DNA binding (ID) protein family. These proteins are basic helix-loop-helix transcription factors which can act as tumor suppressors but lack DNA binding activity. Consequently, the activity of the encoded protein depends on the protein binding partner. [provided by RefSeq, Dec 2011] |
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