

## Product datasheet for **TA323154S**

### ID4 Rabbit Polyclonal Antibody

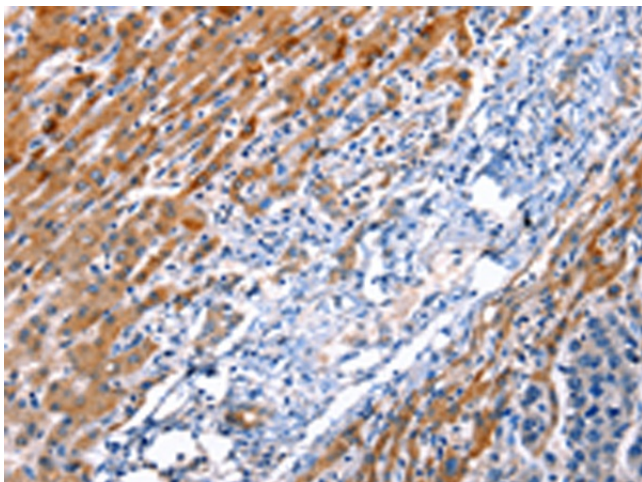
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 20-100 Positive control: Human esophagus cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 19-38 amino acids of Human inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	inhibitor of DNA binding 4, HLH protein
Database Link:	<a href="#">NP_001537</a> <a href="#">Entrez Gene 15904 Mouse</a> <a href="#">Entrez Gene 3400 Human</a> <a href="#">P47928</a>
Background:	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.

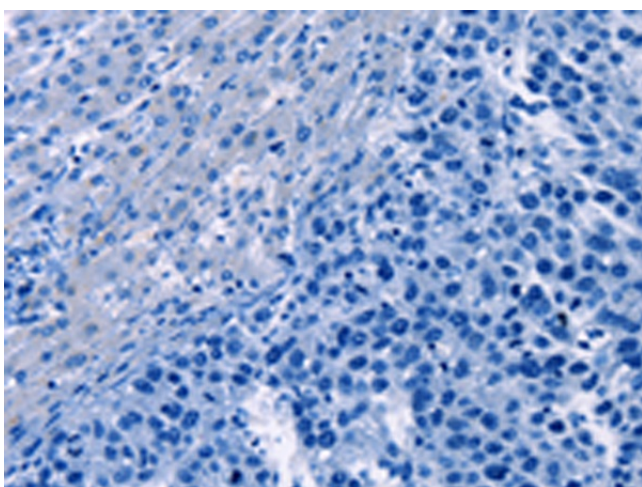


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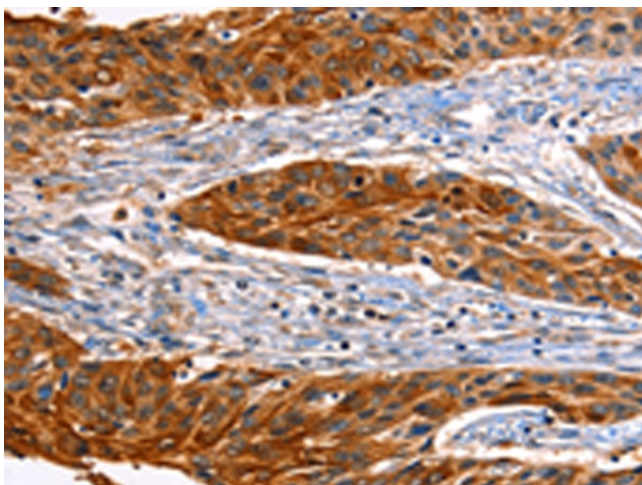
**Synonyms:** bHLHb27; IDB4  
**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors  
**Protein Pathways:** TGF-beta signaling pathway

**Product images:**

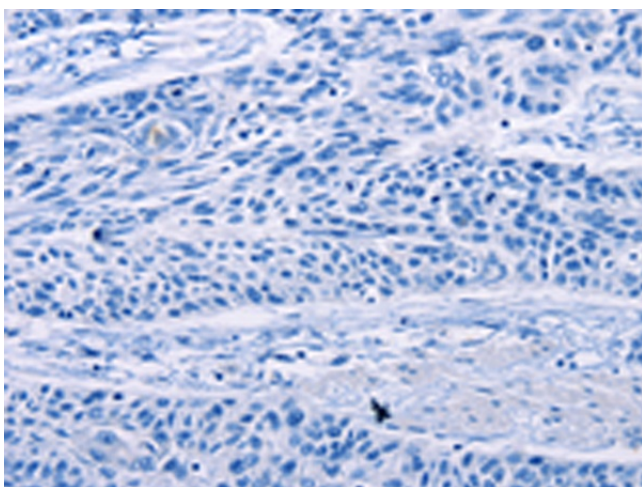
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA323154] (ID4 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA323154] (ID4 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323154] (ID4 Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323154] (ID4 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)