# TPD52 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | TPD52, Polyclonal Antibody |
| **Full Product Name** | TPD52 Antibody |
| **Product Gene Name** | anti-TPD52 antibody |
| **Product Synonym Names** | D52; hD52; Human 19.8 kDa protein mRNA, complete cds; N8L; PC 1; PC1; PC1/MRPS28 fusion protein; PrLZ; Prostate and colon associated protein; Prostate leucine zipper; Protein N8; TPD52; TPD52_HUMAN; Tumor protein D52 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| **Concentration** | 1mg/ml (lot specific) |
| **Specificity** | TPD52 Antibody detects endogenous levels of total TPD52. |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |
| **Antibody/Peptide Pairs** | TPD52 peptide (MBS9632024) is used for blocking the activity of TPD52 antibody (MBS9629641) |
| **Molecular Weight** | 24,327 Da |
| **Chromosome Location** | Chromosome: 8; NC_000008.10 (80947103..81083836, complement). Location: 8q21 |
| **OMIM** | 604068 |
| **3D Structure** | ModBase 3D Structure for P55327 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Immunogen** | A synthesized peptide derived from Human MYOCD. |
| **Conjugation** | Unconjugated |
| **Similarity** | Belongs to the TPD52 family. |
| **Subunit Structure** | Forms a homodimer or heterodimer with other members of the family. All isoforms interact with several 14-3-3 proteins. |
| **Tissue Specificity** | Isoform 2 is expressed in colon, breast, prostate, pancreas and kidney tumor cell lines. Isoform 2 is expressed at high levels in kidney, prostate, brain, small intestine and pancreas, at moderate levels in placenta and colon, at low levels in lung, liver and heart, and at very low levels in spleen, thymus, peripheral mononuclear blood cells, testis and ovary. |
| **Product Categories/Family for anti-TPD52 antibody** | Primary |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |

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| **Applications Tested/Suitable for anti-TPD52 antibody** | ELISA (EIA)(peptide) |
| **Application Notes for anti-TPD52 antibody** | ELISA(peptide): 1:20000-1:40000 |
| **Related Product Information for anti-TPD52 antibody** | MBS9629641 is an antibody targeting TPD52. Also known as TPD52 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-TPD52 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPD52. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 70608172 |
| **NCBI GeneID** | 7163 |
| **NCBI Accession #** | NP_001020423.1 |
| **UniProt Primary Accession #** | P55327 |
| **UniProt Secondary Accession #** | Q13056; Q53EK8; Q6FGP3; Q6FGS3; Q86YZ2; Q9UCX8; B7Z414; E5RKB4 |
| **UniProt Related Accession #** | P55327 |
| **GenBank Nucleotide #** | NM_001025252.1 |
| **NCBI Official Full Name** | tumor protein D52 isoform 1 |
| **NCBI Official Synonym Full Names** | tumor protein D52 |
| **NCBI Official Symbol** | TPD52 |
| **NCBI Official Synonym Symbols** | D52; N8L; PC-1; PrLZ; hD52 |
| **UniProt Protein Name** | Tumor protein D52 |
| **UniProt Synonym Protein Names** | Protein N8 |
| **Protein Family** | Tumor protein |
| **UniProt Gene Name** | TPD52 |
| **UniProt Entry Name** | TPD52_HUMAN |
| **NCBI Protein Information** | tumor protein D52; protein N8; prostate leucine zipper; prostate and colon associated protein |

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| **UniProt Comments for TPD52** | TPD52: a coiled-coil motif bearing hydrophilic protein known to be overexpressed in many human solid tumors of diverse cellular origins. May be associated with B cell differentiation. Increased expression is associated with increased proliferation and invasive capacity in different cell types. May negatively regulate ATM protein levels. Isoform 2 is expressed in colon, breast, prostate, pancreas and kidney tumor cell lines. Isoform 2 is expressed at high levels in kidney, prostate, brain, small intestine and pancreas, at moderate levels in placenta and colon, at low levels in lung, liver and heart, and at very low levels in spleen, thymus, peripheral mononuclear blood cells, testis and ovary. Isoform 2 is expressed at lower levels in fetal brain and kidney than in adult brain and kidney. Eight isoforms of the human protein are produced by alternative splicing<br><br>Protein type: Endoplasmic reticulum; Calcium-binding<br><br>Chromosomal Location of Human Ortholog: 8q21.13<br><br>Cellular Component: perinuclear region of cytoplasm; endoplasmic reticulum; cytoplasm<br><br>Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; calcium ion binding<br><br>Biological Process: anatomical structure morphogenesis; secretion; B cell differentiation; positive regulation of cell proliferation |
| **Research Articles on TPD52** | **1.** Increased PrLZ-mediated androgen receptor transactivation promotes prostate cancer growth at castration-resistant stage. |
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