

**Antibodies Optimized  
by the HTR on the Ventana Discovery System**

| Antibody                             | Clone         | Vendor                      | Cat No      | Source        | Control  |
|--------------------------------------|---------------|-----------------------------|-------------|---------------|--|
| phospho-Akt                          | Ser473 D9E    | Cell Signaling Technology   | 4060        | Rb (poly)     | endometrium  |
| Alpha Smooth Muscle Actin            | SP171         | abcam                       | ab150301    | Rabbit (mono) | appendix, colon  |
| Arginase (Liver Arginase)            | EPR6672 (B)   | abcam                       | ab133543    | Rabbit (mono) | appendicitis   |
| ATP6V1B1                             |               | abcam                       | ab110752    | Rb (poly)     | placenta, stomach (?), breast CA                       |
| BiP                                  | C50B12        | Cell Signaling Technology   | 3177        | Rabbit (mono) | prostate carcinoma                                     |
| Caspase-3                            |               | Cell Signaling Technology   | 9662        | Rb (poly)     | norm colon, tonsil                                     |
| CD3                                  | RBT-CD3       | Bio SB (Cancer Diagnostics) | BSB 6425    | Rabbit (mono) | tonsil   |
| CD4                                  |               |                             |             |               | tonsil   |
| CD8                                  | SP57          | Ventana                     | 790-4460    | Rabbit (mono) | tonsil   |
| CD10                                 |               | abcam                       | ab82073     | Rb (poly)     | tonsil   |
| CD31                                 | JC70A         | Dako                        | M0823       | Ms (mono)     | tonsil   |
| CD34                                 | QBEnd10       | Dako                        | M7165       | Ms (mono)     | tonsil   |
| CD45 LCA                             | PR2/18        | Ventana                     | 760-2505    | Ms (mono)     | tonsil   |
| CD68                                 | PG-M1         | Dako                        | M0876       | Ms (mono)     | tonsil   |
| CD69                                 | FN50          | Invitrogen                  | 14-0699-82  | Ms (mono)     | Hanta virus-infected tissues                           |
| CD105                                | Endoglin SN6h | Dako                        | M3527       | Ms (mono)     | tonsil   |
| CDX-2                                | EPR2764Y      | abcam                       | ab76541     | Rabbit (mono) | norm colon   |
| COX-2                                | CX-294        | Dako                        | M3617       | Ms (mono)     |  |
| CrkL                                 |               | abcam                       | ab151791    | Rb (poly)     | Stomach carcinoma                                      |
| CSF3R (Colony Stimulating Factor)    |               | Atlas                       | HPA048086   | Rb (poly)     | placenta   |
| D2-40 (Podoplanin)                   | D2-40         | Dako                        | M3619       | Ms (mono)     | tonsil   |
| EGFR                                 | D38B1         | Cell Signaling Technology   | 4267        | Rabbit (mono) | placenta   |
| phospho-EGFR                         | Tyr1068       | Cell Signaling Technology   | 2234        | Rb (poly)     | placenta   |
| ERG                                  | EP111         | Cell Marque                 | 434R-14     | Rabbit (mono) | tonsil   |
| Fibrinogen                           | 5C5           | Thermo                      | LF-MA0108   | Ms (mono)     | lung (hanta)   |
| GATA3                                | L50-823       | Cell marque                 | 390M-10     | Ms (mono)     | breast   |
| G-CSF                                |               | abcam                       | ab9691      | Rb (poly)     | placenta   |
| GFAP                                 |               | abcam                       | ab7260      | Rb (poly)     | brain  |
| Giantin                              |               | abcam                       | ab93281     | Rb (poly)     | liver  |
| Gli1                                 |               | abcam                       | ab92611     | Rb (poly)     | testis, myometrium, fallopian tube, brain (cerebellum) |
| Hes1                                 |               | abcam                       | ab71559     | Rb (poly)     | thyroid? Sm intestine?                                 |
| p-HSP27                              | Ser82         | Cell Signaling Technology   | 9709        | Rb (mono)     | breast/prostate  |
| Iba1                                 |               | abcam                       | ab153696    | Rb (poly)     | brain  |
| Ki-67                                | MIB-1         | Dako                        | M7240       | Ms (mono)     | tonsil   |
| Mammaglobin                          | 304-1A5       | Dako                        | M3625       | Ms (mono)     | breast   |
| p-MAPKAPK-2 (p-MK2)                  | Thr334        | Cell Signaling Technology   | 3041        | Rb (poly)     | breast CA, colon (?)                                   |
| MSI2                                 | EP1305Y       | abcam                       | ab76148     | Rabbit (mono) | placenta   |
| Neutrophil Elastase                  |               | abcam                       | ab68672     | Rb (poly)     | spleen   |
| NKp46 (CD335)                        | CD335         | ThermoFisher Sci            | PA5-79720   | Rb (poly)     | tonsil   |
| Notch1                               |               | abcam                       | ab8925      | Rb (poly)     | colon?   |
| p16 (CINtec®)                        | E6H4          | Ventana                     | 705-4713    | Ms (mono)     | p16+ tonsil or cervix                                  |
| p16-INK4a                            |               | BD Pharmingen               | 551153      | Ms (mono)     | p16+ tonsil  |
| P2Y2                                 | H-70          | Santa Cruz                  | sc-20124    | Rb (poly)     | spleen   |
| PAX8                                 |               | Proteintech                 | 10336-1-AP  | Rb (poly)     | ovary tumor, thyroid cancer, kidney, RCC, testis       |
| PROX1                                | EPR19273      | abcam                       | ab199359    | Rabbit (mono) | lymph node, tonsil                                     |
| PTEN XP                              | D4.3          | Cell Signaling Technology   | 9188        | Rabbit (mono) | normal colon   |
| phospho-S6 Ribosomal Protein         | Ser240/244    | Cell Signaling Technology   | 2215        | Rb (poly)     | Breast CA  |
| SATB2                                | EP281         | Cell Marque                 | 384R        | Rabbit (mono) | Colon adenocarcinoma                                   |
| Smad3                                | EP568Y        | abcam                       | ab40854     | Rabbit (mono) | Stomach carcinoma                                      |
| SNV                                  |               | (researcher provided)       |             | Rb (poly)     | Hanta + lung   |
| TAP1                                 |               | abcam                       | ab83817     | Rb (poly)     | spleen   |
| TTF-1 (Thyroid Transcription Factor) | SPT24         | Novocastra/Leica            | NCL-L-TTF-1 | Ms (mono)     | thyroid  |
| Thyroglobulin                        | DAK-Tg6       | Dako                        | M0781       | Ms (mono)     | thyroid  |
| TGF β Receptor I                     |               | abcam                       | ab31013     | Rb (poly)     | placenta   |
| Tyrosine Hydroxylase                 | LNC1          | Millipore                   | MAB318      | Ms (mono)     | adrenal (+); liver (-)                                 |
| UCP1                                 |               | abcam                       | ab23841     | Rb (poly)     | brown adipose  |
| uPA                                  |               | (researcher obtained)       |             | Rb (mono)     | lung (hanta)   |
| uPAR                                 |               | American Diagnostica        | 3936        | Ms (mono)     | lung (hanta)   |
| VATPase C1                           | C1            | Santa Cruz                  | sc-20944    | Rb (poly)     | stomach, placenta                                      |
| VEGF                                 | EP1176Y       | abcam                       | ab52917     | Rabbit (mono) | placenta, tonsil                                       |
| VEGF Receptor 2                      | 55B11         | Cell Signaling Technology   | 2479        | Rabbit (mono) | placenta   |
| VEGF Receptor 2                      | D5B1          | Cell Signaling Technology   | 9698        | Rabbit (mono) | placenta   |