



# Anti-POU5F1 monoclonal antibody, clone HU597 (DCABH-7898)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b>    | Mouse monoclonal to Oct4                                                                                                                                                                                                                                                                                          |
| <b>Antigen Description</b> | Transcription factor that binds to the octamer motif (5-ATTTGCAT-3). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. |
| <b>Immunogen</b>           | Recombinant fragment within Human Oct4 aa 1-182. The exact sequence is proprietary. Database link: Q01860                                                                                                                                                                                                         |
| <b>Isotype</b>             | IgG2b                                                                                                                                                                                                                                                                                                             |
| <b>Source/Host</b>         | Mouse                                                                                                                                                                                                                                                                                                             |
| <b>Species Reactivity</b>  | Mouse, Human                                                                                                                                                                                                                                                                                                      |
| <b>Clone</b>               | HU597                                                                                                                                                                                                                                                                                                             |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>        | ICC/IF, Flow Cyt, IP, WB, IHC-P                                                                                                                                                                                                                                                                                   |
| <b>Positive Control</b>    | Oct4 transfected 293T and HeLa cells; NT2D1 whole cell lysates; mouse and Human ESC whole cell lysates; Human embryonic stem cells and BT483 xenograft tissue.                                                                                                                                                    |
| <b>Format</b>              | Liquid                                                                                                                                                                                                                                                                                                            |
| <b>Size</b>                | 100 µl                                                                                                                                                                                                                                                                                                            |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                              |

|                |                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Ship</b>    | Shipped at 4°C.                                                                                                   |

## GENE INFORMATION

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">POU5F1 POU class 5 homeobox 1 [ Homo sapiens ]</a>                                                                                                                                                                                                  |
| <b>Official Symbol</b>     | POU5F1                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | POU5F1; POU class 5 homeobox 1; OTF3, POU domain class 5, transcription factor 1; POU domain, class 5, transcription factor 1; MGC22487; OCT3; Oct4; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-bindi  |
| <b>Entrez Gene ID</b>      | <a href="#">5460</a>                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | <a href="#">NP_001167002</a>                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | <a href="#">M1S623</a>                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 6p21.33                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | HIF-2-alpha transcription factor network, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;                                                                                                                     |
| <b>Function</b>            | DNA binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcrip |