

Guidelines for the Blood Transfusion Services

17.2: Nomenclature

<http://www.transfusionguidelines.org/red-book/chapter-17-granulocyte-immunology/17-2-nomenclature>

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The current nomenclature for HNA and corresponding antibodies is based on epitopes and allelic typing and this must be used for recording granulocyte-specific alloantigen and alloantibody specificities¹ (see Table 17.1).

Table 17.1 Current nomenclature for HNA alleles, epitopes and corresponding antibodies

| System | Allele | Epitopes | Original name | Glycoprotein | CD |
|---------------------------------------------------------------------------------------------------------|-------------------|----------------|-------------------|--------------|-------|
| HNA-1 | <i>FCGR3B*01</i> | HNA-1a | NA1 | FcRIIIb | CD16 |
| | <i>FCGR3B*02</i> | HNA-1b, HNA-1d | NA2 | FcRIIIb | CD16 |
| | <i>FCGR3B*03</i> | HNA-1b, HNA-1c | SH | FcRIIIb | CD16 |
| | <i>FCGR3B*04</i> | HNA-1a | | FcRIIIb | CD16 |
| | <i>FCGR3B*05</i> | HNA-1bv | | FcRIIIb | CD16 |
| HNA-2 | Unknown | HNA-2 | NB1 | GP56-64kDa | CD177 |
| HNA-3 | <i>SLC44A2*01</i> | HNA-3a | 5b | CTL-2 | |
| | <i>SLC44A2*02</i> | HNA-3b | 5a | CTL-2 | |
| | <i>SLC44A2*03</i> | HNA-3av | | CTL-2 | |
| HNA-4 | <i>ITGAM*01</i> | HNA-4a | MART ^a | CD11/18 | CD11b |
| | <i>ITGAM*02</i> | HNA-4bw | | CD11/18 | CD11b |
| HNA-5 | <i>ITGAL*01</i> | HNA-5a | OND ^a | CD11/18 | CD11a |
| | <i>ITGAL*01</i> | HNA-5bw | | CD11/18 | CD11a |
| v: indicates a variant epitope that may have different serological characteristics with some antisera. | | | | | |
| w: indicates a workshop designation – no antibodies against this epitope have currently been described. | | | | | |