

R documentation

of ‘DebonQB.Rd’

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DebonQB

Q vs. B diagram (Debon + Le Fort 1983)

Description

Assigns data for Debon & Le Fort’s Q vs. B diagram into Figaro template (list ‘sheet’) and appropriate values into ‘x.data’ and ‘y.data’.

Usage

DebonQB()

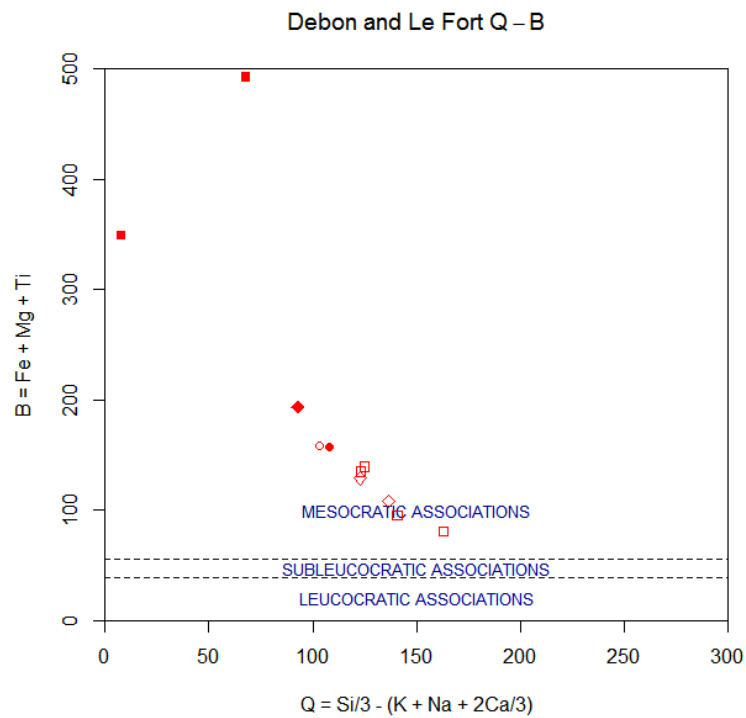
Details

The Q vs. B diagram was proposed by *Debon and Le Fort (1983)* for aluminous associations. It defines three associations, reflecting maficity of samples: leucocratic, subleucocratic and mesocratic.

Parameters for the diagram are calculated by the function ‘DebonCalc’. All of them are based on millications (1000 gram-atoms per 100 grams).

$Q = Si / 3 - (K + Na + 2 * Ca / 3)$ [cationic proportion of quartz]

$B = Fe + Mg + Ti$ [maficity]



For details, see *Debon & Le Fort (1983)* and *(1988)*.

Value

sheet	list with Figaro Style Sheet data
x.data	Q value. See details.
y.data	B value. See details.

Author(s)

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References

- Debon F & Le Fort P (1983) A chemical-mineralogical classification of common plutonic rocks and associations. *Trans Roy Soc Edinb; Earth Sci* 73: 135-149
- Debon F & Le Fort P (1988) A cationic classification of common plutonic rocks and their magmatic associations: principles, method, applications. *Bull. Mineral* 111: 493-511

See Also

[classify](#) [figaro](#) [plotDiagram](#) [DebonPQ](#) [DebonBA](#) [DebonKNaB](#) [DebonBMgNo](#) [DebonBQF](#) [Debon-Calc](#)

Examples

```
data(blatna)
accessVar("blatna")
```

```
selectSubset("SiO2>50")  
plotDiagram("DebonQB",FALSE)  
figCol("red")
```