# eth\_getTransactionByBlockNumberAndIndex

Returns information about a transaction given block number and transaction index position.

## **Parameters**

- · block parameter
- : [Required
- ] A hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- ,safe
- , orfinalized
- See thedefault block parameter
- •
- · transaction index position
- : [Required
- ] A hexadecimal of the integer representing the position in the block.

## Returns

A transaction object, or null when no transaction was found. The transaction object will consist of the following keys and their values:

- accessList
- : [optional
- ] A list of addresses and storage keys accessed by the transaction. Seaccess list transactions
- .
- blockHash
- : 32 bytes. A hash of the block including this transaction.null
- · when it's pending.
- blockNumber
- · : The number of the block including this transaction.null
- · when it's pending.
- chainID
- : [optional
- ] chain ID specifying the network. Returned only fo EIP-1559 transactions
- •
- from
- : 20 bytes. The address of the sender.
- gas
- · : Gas provided by the sender.
- gasPrice
- · : Gas price provided by the sender in Wei.
- hash
- : 32 bytes. The hash of the transaction.
- input
- : The data sent along with the transaction.
- · maxPriorityFeePerGas
- : [optional
- ] Maximum fee, in Wei, the sender is willing to pay per gas above the base fee. Se€IP-1559 transactions
- •
- maxFeePerGas
- : [optional
- ] Maximum total fee (base fee + priority fee), in Wei, the sender is willing to pay per gas. SeEIP-1559 transactions
- nonc
- : The number of transactions made by the sender prior to this one.
- r
- : 32 bytes. The ECDSA signaturer
- s
- : 32 bytes. The ECDSA signatures
- to
- 10
- : 20 bytes. The address of the receiver.null

- · when it's a contract creation transaction.
- transactionIndex
- The transaction's index position in the block, in hexadecimal.null
- when it's pending.
- type
- : Thetransaction type
- \_
- \
- : The ECDSA recovery ID.
- value
- : The value transferred in Wei.
- yParity
- · : [optional
- ] Parity (0x0
- for even,0x1
- for odd) of the y-value of aecp256k1
- · signature.

# **Example**

ReplaceYOUR-API-KEY with an API key from yourInfura dashboard.

### Request

- cURL
- WSS

curl https://mainnet.infura.io/v3/YOUR-API-KEY\-X POST\-H "Content-Type: application/json"\-d '{"jsonrpc":"2.0","method":"eth\_getTransactionByBlockNumberAndIndex","params": ["0x5BAD55","0x0"],"id":1}' wscat -c wss://mainnet.infura.io/ws/v3/YOUR-API-KEY-x '{"jsonrpc":"2.0","method":"eth\_getTransactionByBlockNumberAndIndex","params": ["0x5BAD55","0x0"],"id":1}'

### Response

JSON

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